

Superfund Records Center

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**REMOVAL PROGRAM
PRELIMINARY ASSESSMENT/
SITE INVESTIGATION REPORT ADDENDUM
FOR THE
PARK STREET SITE
BENNINGTON, BENNINGTON COUNTY, VERMONT
JULY, AUGUST, AND SEPTEMBER 2012**

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

CONTRACT NO. EP-W-05-042

TDD NO. 01-12-03-0002

TASK NO. 0779

DC NO. R-7369

Submitted By:

Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team (START)
3 Riverside Drive
Andover, MA 01810

March 2013



SDMS DocID 582114

INTRODUCTION

From July through September 2012, U.S. Environmental Protection Agency (EPA) Region I and Weston Solutions, Inc. (Weston), Superfund Technical Assessment and Response Team III (START) mobilized to the Park Street site (the site) located in Bennington, Bennington County, Vermont. During this timeframe, several sampling events were conducted as part of the Removal Program Preliminary Assessment/Site Investigation (PA/SI) to determine if further actions, including removal activities, were warranted at the site. These events included conducting indoor air sampling at a residential property; conducting soil sampling at four residential properties and a wetland area; and installing 12 monitoring wells and conducting groundwater sampling on six properties.

SITE DESCRIPTION

The Park Street site (the site) is located on Park Street and Bowen Road in Bennington, Bennington County, Vermont. Geographic coordinates of the site are 42° 53' 27.9" north latitude and 73° 11' 32.9" west longitude, as measured from the approximate center of the site (see Appendix A, Figure 1) [1]. The site consists of Little League baseball fields, six residential properties, and wetland areas. The site is adjacent to the former Jard Company, Inc. (Jard) site (former Jard site), and is abutted to the west by the Bennington Square Shopping Center, to the north by North Branch Street and industrial properties, to the east by Bowen Road, and to the south by the former Jard site and the Roaring Branch of the Walloomsac River (Roaring Branch) (see Appendix A, Figure 2) [2].

The site may be potentially impacted by contamination from the former Jard site, a former capacitor and transformer manufacturing facility that produced capacitors, non-fluid transformers, and motors used in household appliances. Jard generated wastes associated with its manufacturing processes from 1969 to 1986. These wastes included polychlorinated biphenyls (PCBs); a variety of volatile organic compounds (VOCs), including trichloroethylene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), and toluene; semivolatile organic compounds (SVOCs); waste hydraulic and lubricating oils; waste paints and varnishes; waste zinc oxide; waste-contaminated rejected capacitors; spent SpeediDri™; and PCB- and phthalate-contaminated wastewater. From September 2006 through August 2007, U.S. EPA conducted a Removal Action at the former Jard site, removing PCB-contaminated materials [3].

Subsequent to the EPA Removal Action at the former Jard site, the Vermont Department of Environmental Conservation (VT DEC) expressed concerns regarding surface and subsurface soil and groundwater contamination related to the Park Street site, which is located downgradient of the former Jard site. VT DEC requested EPA's assistance with further investigation activities at the Park Street site.

SITE ACTIVITIES

On 24 and 25 July 2012, OSC Catherine Young and START member John Burton mobilized to the site to conduct indoor air sampling at 403 Park Street as part of the PA/SI extent-of-contamination evaluation. All personnel for this sampling event and for the remaining sampling

activities signed the site-specific health and safety plan (HASP), which was prepared as a separate document entitled, *Weston Solutions, Inc. Region I START Site Health and Safety Plan (HASP) for the Park Street Site, Park Street, Bennington, Vermont*.

Five sampling stations were set up throughout the 403 Park Street residential property. The air samples were collected over a 24-hour period on polyurethane foam (PUF) plugs in glass cartridges. The samples were analyzed for PCBs at a START-procured Delivery of Analytical Services (DAS) laboratory [4].

Air sampling was conducted at this residential property based on the results from original soil sampling conducted in April 2012 that were documented in a separate document, entitled *Removal Program Preliminary Assessment/Site Investigation Report for the Park Street Site, Bennington, Bennington County, Vermont, 2 through 6 April 2012*, dated September 2012 [5].

On 6 through 9 August 2012, OSC Eric Vanderboom and START personnel Lauren Long, Stephanie Bitzas, Rob Sharp, and Bill Mahany mobilized to the site to conduct additional sampling to determine the extent of contamination [6, 7]. START collected 53 sediment samples from the wetlands area; 12 soil samples from the residential property at 414 Bowen Road; 15 soil samples from the residential property at 538 Bowen Road; 30 soil samples from the residential property at 594 Bowen Road; and three soil/floor sweep samples from the residential property at 410 Park Street. See Appendix A, Figures 3a through 3e, for soil and sediment sample locations; and Appendix B, Tables 1 and 2, for all soil and sediment descriptions.

START personnel established a support zone and calibrated the air monitoring instrument which was a MultiRae Plus unit [lower explosive limit (LEL), oxygen (O₂), carbon monoxide (CO), hydrogen sulfide (H₂S), and VOC detectors] [8]. Ambient conditions were recorded in the site-specific HASP as follows: LEL = 0%; O₂ = 20.9%; CO = 0 parts per million (ppm); H₂S = 0 ppm; VOC = 0 ppm. Air monitoring was conducted for the duration of the extent-of-contamination sampling. Any levels above background were documented in the site-specific HASP. START sampling activities were performed in accordance with the site sampling and analysis plan (SAP), which was prepared as a separate document, entitled *Sampling and Analysis Plan for the Park Street Site, Bennington, Bennington County, Vermont*. START personnel conducted soil sampling activities in Level D or Modified Level D personal protective equipment (PPE), as per the site-specific HASP.

All samples were screened on site for PCBs by the EPA Office of Environmental Measurement and Evaluation (OEME) mobile laboratory. In addition, approximately 10% of the samples were selected for confirmation PCB analysis at the OEME laboratory located in North Chelmsford, Massachusetts.

On 13 August 2012, boring advancement and monitoring well installation activities began at the site [9]. These activities were conducted in accordance with the document entitled, *Request for Proposal for Soil Borings and Monitoring Well Installation at the Park Street Site, Bennington, Vermont*, 20 July 2012. The objective for installing the monitoring wells was to assist VT DEC with determining the downgradient extent of a PCB plume identified during recent investigations at the site.

START members George Mavris and Andrew Danikas, and OSC Eric Vanderboom met at the Bennington Square Shopping Center located on Kocher Drive. New Hampshire Boring, Inc. (NHB) personnel Manlea Thompson (driller) and Matt Soucy (driller's assistant) arrived on site. The drill rig had broken down en route and would not be on site until the following day. A tailgate safety meeting was held, and site history; chemical, physical, and biological hazards; and proposed scope of work details were discussed. All personnel reviewed and signed the site HASP. Tailgate safety meetings were conducted every morning prior to commencing drilling activities.

A site walk was conducted to inspect the locations in the wetland area where monitoring wells would be installed. The area was heavily overgrown and contained wetlands in some areas. Three proposed well locations (EPA-102, EPA-103, and EPA-105) were observed in the wetland area, and two were observed on residential properties (EPA-104S/EPA-104D at 403 Park Street and EPA-100 at 1086 Branch Street) (see Figure 4, Monitoring Well Location Map).

NHB mechanics were en route to repair the disabled drill rig to have it ready for initiation of drilling activities the following morning. Site activities were completed for the day, and all personnel departed the site.

On 14 August 2012, START personnel Mavris and Danikas and OSC Vanderboom arrived on site behind the Bennington Square Shopping Center. NHB personnel were already on site and had conducted an inspection of the drill rig and equipment prior to moving to the first location (EPA-105). A drill rig and equipment inspection was conducted by NHB personnel every morning prior to commencing drilling activities.

NHB vehicles on site included a flatbed truck, drill rig (CME-550X), box truck, and air compressor. NHB personnel cleared brush and trees prior to moving the drilling equipment to the first well location. This well served as a test boring and would be drilled deeper than the other wells to determine characteristics of subsurface geology downgradient of the Jard property.

NHB began drilling using the ODEX drilling method. The ODEX drilling method operates with the use of a pilot bit with an eccentric reamer bit, a down-the-hole-hammer, a specialized drive shoe and steel casing. Using this method allows for the hammer to pulverize the material below the casing and then blows it back through the casing to the top of the hole. As the hammer drives through the material, it also reacts against an interior shoulder beveled inside the steel casing, which pulls the casing down the hole as the hammer drill is advanced. This method is well suited for drilling through difficult formations such as cobbles and boulders, but does not allow for an adequate description of the surficial materials and suitable sample collection. This method of drilling was used to get through the zone of cobbles and boulders which comprised the shallow overburden at the site.

The boring at location EPA-105 broke through the cobble/boulder layer at approximately 19 feet below ground surface (bgs). Material blowing up to the surface via compressed air was examined and found to consist of gravel, cobbles, and boulders (white, pink, red, tan, brown, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt. This general description of the cobble/boulder layer (shallow overburden) can be applied to all of the borings advanced during this project. Once the shallow cobble/boulder layer was penetrated, the ODEX

system casing was retracted, and the drive and wash drilling method was used to complete the boring. This procedure was also repeated for the remaining borings.

Mark White, Town of Bennington Water Department, arrived on site and discussed the proposed monitoring well locations. START provided him with a map showing the proposed well locations, and he stated that he would mark the locations where any water lines were present at 403 Park Street. All other locations were cleared for water and sewer lines.

Site activities were completed for the day. NHB personnel secured vehicles and equipment, and all personnel departed the site for the day.

On 15 August 2012, drilling activities continued, and NHB resumed advancing boring EPA-105 using the drive and wash drilling method. The boring was advanced to 42 feet bgs, six split spoon samples were collected, and a monitoring well was installed in the boring (see Appendix F, Boring Logs). Soil cuttings and water generated during drilling activities were containerized and secured in 55-gallon drums. The drums were subsequently moved to a drum staging area located in the open field east of the Bennington Square Shopping Center. Site activities were completed for the day. NHB personnel secured vehicles and equipment, and all personnel departed the site.

On 16 August 2012, START and NHB completed installing the monitoring well at EPA-105, and constructed a decontamination pad and drum storage area east of the Bennington Square Shopping Center. NHB personnel decontaminated drilling equipment after completing EPA-105. Drilling equipment was decontaminated after completing each boring and prior to moving to the next drilling location for the duration of the project. Drums containing soil cuttings and water were stored on wooden pallets in the drum staging area. START placed appropriate labels characterizing the waste stored in the drums as the drums were filled.

The NHB crew refilled their water tanks prior to setting up at the second location, EPA-103. The dirt road leading to the location of EPA-103 was modified (a low spot was filled with boulders and covered with terra mats), and some brush clearing took place.

Site activities were completed for the day. NHB personnel secured vehicles and equipment, and all personnel departed the site for the day.

On 17 August 2012, NHB completed drilling at EPA-103. EPA-103 was drilled approximately 14.5 feet bgs before breaking through the cobble/boulder layer. Two split spoons were advanced through the ODEX casing. When the NHB crew pulled out the ODEX casing, the bottom piece of the casing with the pilot bit was lost in the borehole. As a result, the boring could not be advanced any deeper and would have to be re-drilled.

The drill rig was moved a few feet away, and NHB began advancing the second boring at EPA-103. While driving the ODEX casing, a large boulder was encountered that caused the casing to enter at an angle. The casing was retracted, and a third boring was begun. The boring was advanced to 17 feet bgs. Work for the day stopped at this point, and the NHB crew secured their vehicles and equipment. START secured and labeled all of the drums containing investigation-derived waste (IDW) and notified the Bennington Police Department that 55-gallon drums

containing soil cuttings and water would be left in the field area east of the shopping plaza over the weekend. All personnel departed the site for the weekend.

On 20 August 2012, START member Mavris, OSC Eric Vanderboom, and NHB personnel (including Manlea Thompson and Matt Soucy) arrived on site to resume drilling activities. NHB had mobilized an additional person and a larger air compressor unit. NHB resumed drilling activities at EPA-103. NHB set up the drive and wash drilling method and advanced the boring to 37 feet bgs. Six split spoon samples were collected, and a monitoring well was installed in the boring. Soil cuttings and water generated during drilling activities were containerized and secured in 55-gallon drums.

NHB cleared a path and moved the drill rig and equipment over to the EPA-102 location. Drilling began using the ODEX drilling method and continued to a depth of 18 feet bgs, before drilling activities stopped for the day. Site activities were completed, NHB personnel secured vehicles and equipment, and all personnel departed the site for the day.

On 21 August 2012, drilling activities resumed. NHB personnel resumed drilling at EPA-102 using the ODEX method, and broke through the cobbles/boulder layer at 21 feet. NHB advanced the boring to 37 feet bgs, collected six split spoon samples, and installed a monitoring well in the boring. Soil cuttings and water were containerized and secured in 55-gallon drums.

NHB cleared a path through the wetlands/wooded area and moved the drill rig and equipment to location EPA-104, where a monitoring well couplet was installed. This location was moved from a residential property to the open field west of the property. NHB began drilling EPA-104D using the ODEX drilling method, and broke through the cobbles/boulder layer at 18 feet and collected two split spoon samples. A clay layer was encountered at approximately 19 feet; therefore, drilling was stopped, and a monitoring well was installed in the boring. Drilling activities cease for the day, the NHB crew secured the rig and equipment, and all personnel departed site.

On 21 August 2012, START and NHB refilled their water tanks and began drilling at EPA-102S using the ODEX method. EPA-104S was advanced to 11.5 feet bgs, and a monitoring well was installed in the boring.

NHB set up to drill EPA-101 on Park Street adjacent to the Walloomsac River. The boring was advanced using the ODEX drilling method and broke through the cobble/boulder layer at 20 feet bgs. When NHB pulled out the ODEX casing, the bottom piece of the casing with the pilot bit with the carbide teeth was lost in the borehole and the borehole collapsed. As a result, the boring could not be advanced any deeper in that location, and a co-located boring was advanced through the cobble/boulder zone using the ODEX drilling method. The drive and wash drilling method was then used to advance the boring to 35 feet bgs, and five split spoon samples were collected and characterized. Drilling activities were completed for the day, NHB secured the rig and equipment, and all personnel departed the site.

On 22 August 2012, NHB refilled their water tanks and set up the drill rig and equipment at EPA-106, where a monitoring well couplet was installed. NHB began drilling EPA-106D using the ODEX drilling method, and broke through the cobble/boulder layer at 23 feet. NHB changed

over to the drive and wash drilling method and advanced the boring to 30 feet bgs. Four split spoon samples were collected and characterized, and a monitoring well was installed in the boring. A clay layer was encountered at approximately 28 feet; therefore, drilling was stopped, and a monitoring well was installed in the boring.

NHB personnel advanced the boring at EPA-106S down to approximately 12 feet using the ODEX drilling method and installed a monitoring well in the boring. Drilling activities were completed for the day, NHB secured the rig and equipment, and all personnel departed the site.

On 23 August 2012, drilling activities resumed. NHB refilled their water tanks and set up the drill rig and equipment at EPA-108, where another monitoring well couplet was installed. The NHB crew began drilling EPA-108D using the ODEX drilling method, and broke through the cobble/boulder layer at 30 feet. When the NHB crew pulled out the ODEX casing, the bottom piece of the casing with the pilot bit with the carbide teeth was lost in the borehole, and the borehole collapsed. Drilling activities were completed for the week, NHB secured the rig and equipment, and all personnel departed the site for the weekend. START notified the Bennington police Department that four drums of IDW remained on site.

On 27 August 2012, drilling activities resumed. NHB personnel set up at EPA-108D and began re-drilling using the ODEX drilling method, and broke through the cobble/boulder layer at 30 feet. NHB changed over to the drive and wash drilling method; advanced the boring to 34 feet bgs; and collected and characterized two split spoon samples. A clay layer was encountered at approximately 32 feet; therefore, drilling was stopped, and a monitoring well was installed in the boring. NHB personnel advanced the boring at EPA-108S down to approximately 13 feet using the ODEX drilling method and installed a monitoring well in the boring. Drilling activities were completed for the day, NHB secured the rig and equipment, and all personnel departed the site.

On 28 August 2012, monitoring well EPA-107 was to be drilled; however, due to heavy rainfall, EPA decided to postpone drilling EPA-107 until the following day to avoid damage to the lawn at this residential property. NHB set up drilling operations at EPA-100 instead. NHB personnel set up a drill at EPA-100 and began drilling using the ODEX drilling method, and broke through the cobble/boulder layer at 33 feet. As the ODEX casing was pulled out of the boring, another bottom piece of the casing with the pilot bit was lost. However, the borehole did not collapse. NHB switched over to the drive and wash drilling method, and collected and characterized two split spoon samples. A clay layer was encountered at approximately 33 feet; therefore, drilling was stopped, and a monitoring well was installed in the boring.

NHB personnel also began developing the monitoring wells that were already installed and collected approximately 3 to 4 gallons of purge water from each well so that a sample could be collected for IDW (aqueous) analysis.

OSC Vanderboom, START member Mavris, and NHB crew met at the North Branch Street residential property to assess the moving and staging of vehicles on the property.

Drilling activities were completed for the day, NHB secured the rig and equipment, and all personnel departed the site.

On 29 August 2012, drilling activities commenced at the residential property on North Branch Street (1086) (Hunt Residence). NHB laid down terra-mats to prevent lawn damage, and used plastic sheeting to cover the drill area and minimize water splashing.

NHB personnel set up at EPA-107 and began drilling using the ODEX drilling method, and broke through the cobble/boulder layer at 20 feet. NHB switched over to the drive and wash drilling method, and collected and characterized four split spoon samples. Bedrock was encountered at approximately 28.5 feet; therefore, drilling was stopped, and a monitoring well was installed in the boring. A monitoring well couplet was to be installed in this location; however, since bedrock was encountered at a shallow depth, the OSC determined that a single well with a 10-foot long screen, rather than a 5-foot screen, would be installed at this location.

OSC Dan Burgo arrived on site to assume OSC responsibilities.

Drilling activities were completed, and a total of 12 monitoring wells were installed. NHB secured the rig and equipment, and all personnel departed the site.

On 30 August 2012, NHB finished developing the remaining monitoring wells. All of the drums containing IDW were moved and staged in the designated area east of the Bennington Square Shopping Center.

START member Mavris collected one representative soil and one representative water sample from the IDW drums for disposal analyses [VOCs, SVOCs, pesticides, PCBs, Resource Conservation and Recovery Act (RCRA)-8 metals, flashpoint, and pH]. Chain-of-custody documentation was completed, and samples were prepared for delivery to the U.S. EPA Office of Environmental Measurement and Evaluation (OEME). START member Mavris relinquished custody of the samples to OSC Vanderboom, who delivered the samples to OEME.

NHB completed decontaminating their equipment and demobilized from the site. One vehicle was left behind (compressor) until the next (Friday) morning.

START member Mavris gauged all monitoring wells, used a global positioning system (GPS) instrument to locate the 12 monitoring wells, labeled the 12 IDW drums, and photodocumented the staging area and drums. The Bennington Police Department was notified that the 12 55-gallon drums would be staged east of Bennington Square Shopping Center until off-site disposal arrangement could be made.

Site activities were completed, and START member Mavris departed the site.

On 26 and 27 September 2012, EPA OSC Burgo and START personnel Eric Ackerman, Colin Cardin, Stephanie Bitzas, Andrew Danikas, and Rob Sharp mobilized to site and collected a total of 17 groundwater samples from the 12 recently installed monitoring wells (EPA-100, EPA-101, EPA-102, EPA-103, EPA-104S, EPA-104D, EPA-105, EPA-106S, EPA-106D, EPA-107, EPA-108S, and EPA-108D). One of the 17 groundwater samples collected was a duplicate (GW-109), and four of the samples (GW-101-F, GW-102-F, GW-106D-F, and GW-108D-F) were filtered in the field due to high turbidity. Groundwater samples were collected using the low-flow groundwater sampling method [10].

Sample locations were photodocumented and recorded using the Trimble™ Pathfinder Pro XRS Global Positioning System (GPS) unit (see Appendix C, Photodocumentation Log) [11]. EPA chain-of-custody procedures were utilized for all sampling activities and were completed by START (see Appendix D, Chain-of-Custody Record).

Two additional 55-gallon drums of purge/decontamination water were generated during groundwater sampling activities. These drums were labeled and staged with the 12 drums generated during drilling activities.

ANALYTICAL DATA SUMMARIES

Air Sampling

The results from the July 2012 air sampling conducted at 403 Park Street indicated levels of total PCBs ranging from 34,800 picograms per cubic meter (pg/m^3) in the dining room to 246,000 pg/m^3 in the basement (see Appendix B, Table 3) [12].

Soil/Sediment Sampling

During the August 2012 sediment sampling of the wetland area, field screening results showed detections of Aroclor-1242 in four sediment samples, with a maximum concentration of 1.0 milligrams per Kilogram (mg/Kg) at sample location SD-523 (see Appendix B, Table 4). Approximately 10% of the field-screened samples were submitted for confirmation analysis. Aroclor-1242 was detected in three wetland samples during confirmation analysis, with a maximum concentration of 3.2 mg/Kg at the same location, SD-523 (see Appendix B, Table 5) [13-16].

A total of five sample locations, three of which were in the crawl space, at 410 Park Street were field-screened for PCBs by EPA chemist Scott Clifford. All of these samples were non-detect (ND) for Aroclor-1242 during field screening. During confirmation analysis, one sample, P-410-SS-02 (collected in the crawl space under the house), revealed the presence of Aroclor-1242 at a concentration of 0.39 mg/Kg and Aroclor-1260 at a concentration of 0.22 mg/Kg [13-16].

A total of 12 samples (plus one laboratory duplicate) from 414 Bowen Road were field-screened for PCBs. All of these samples were ND for Aroclor-1242 during field screening. The four samples submitted for confirmation analyses were also ND for PCBs [13-16].

A total of 15 sample locations at 538 Bowen Road were field screened for PCBs. All of these samples were ND for Aroclor-1242 during field screening. The two samples submitted for confirmation analyses were also ND for PCBs [13-16].

A total of 30 samples (plus one laboratory duplicate) from 594 Bowen Road were field screened for PCBs. All of these samples were ND for Aroclor-1242 during field screening. The three samples submitted for confirmation analyses were also ND for PCBs [13-16].

Groundwater Sampling

In September 2012, samples were collected from all groundwater monitoring wells recently installed on site. Based on the analytical results received from OEME, no PCB Aroclors were detected above their reporting limits in any of the samples [17].

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Appendices

Appendix A

Figures

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3a	Sediment Sample Location Map
Figure 3b	Sample Location Map, 410 Park Street
Figure 3c	Sample Location Map, 414 Bowen Road
Figure 3d	Sample Location Map, 538 Bowen Road
Figure 3e	Sample Location Map, 594 Bowen Road
Figure 4	Monitoring Well Location Map

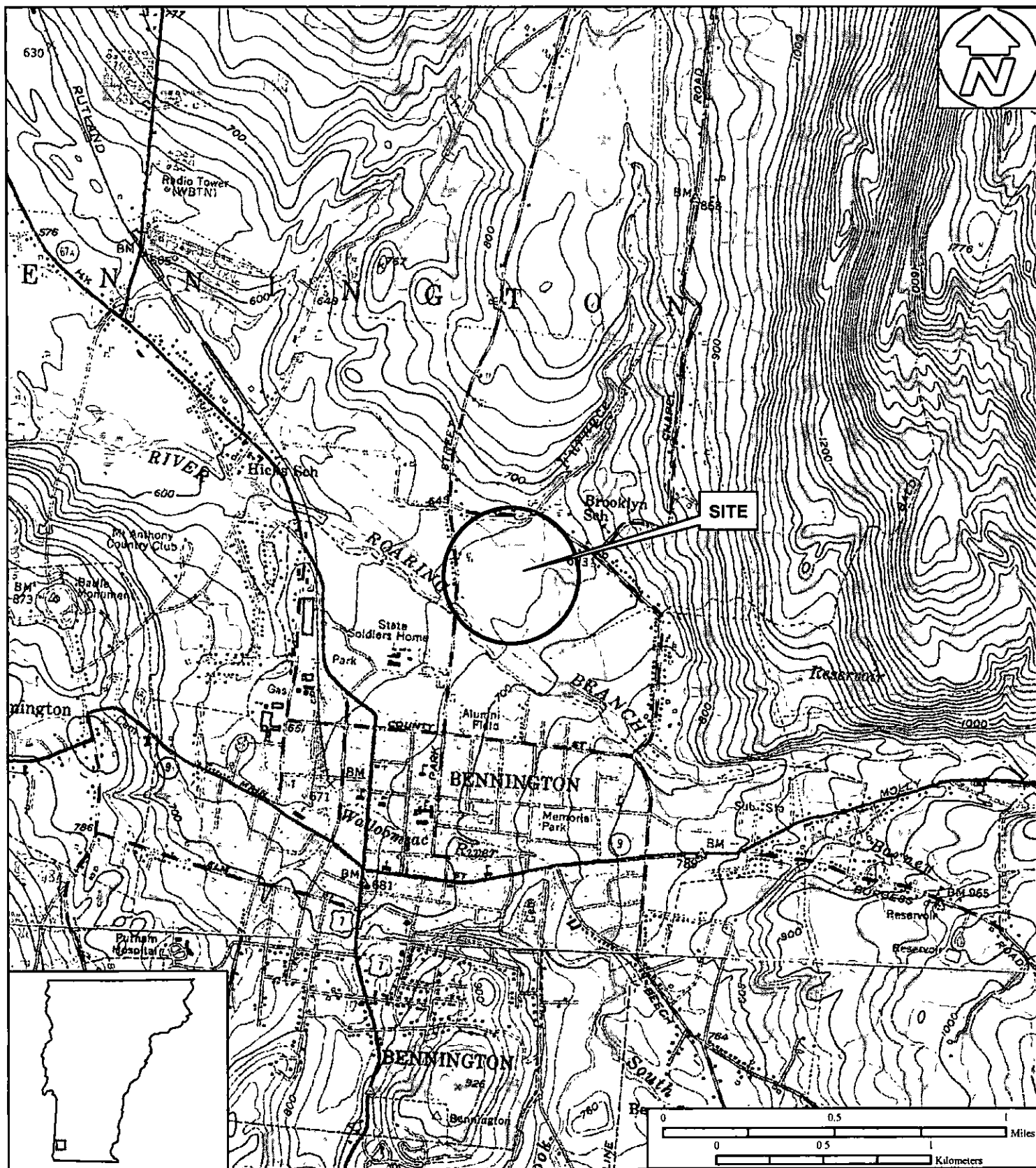


Figure 1

Site Location Map

Park Street Site
Park Street
Bennington, Vermont

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042

TDD Number: 01-12-03-0002
Created by: Eric D. Ackerman
Created on: 23 March 2012
Modified by: B. Mace
Modified on: 16 May 2012

Data Sources:

Topos: MicroPath/USGS
 Quadrangle Name: Bennington, Vermont
 All other data: START



The Trusted Integrator for Sustainable Solutions



Figure 2

Site Map

**Park Street Site
Park Street
Bennington, Vermont**

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042
TDD Number: 12-03-0002
Created by: Eric D. Ackerman
Created on: 23 March 2012
Modified by: B. Mace
Modified on: 29 May 2012

Legend



Feet
0 150 300

Data Sources:
Imagery: Bing Maps Aerial (Microsoft Corp)
All other data: START





Figure 3a

Sediment Sample Location Map

**Park Street Site
Bennington, Vermont**

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042
TDD Number: 12-03-0002
Created by: L. Long
Created on: 25 September 2012
Modified by: C. Dupree
Modified on: 22 October 2012

Legend

□ Sediment Sample Location



0 50 100 200 300
Feet

Data Sources:

Imagery: Bing Maps
Topos: MicroPath
All other data: START





Figure 3b

Sample Location Map
410 Park Street

Park Street Site
Bennington, Vermont

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042

TDD Number: 12-03-0002

Created by: L LONG

Created on: 30 OCT 2012

Modified by: L LONG

Modified on: 30 OCT 2012

Legend

- ☐ Sediment Sample Location
- ☐ Soil Sample Location



0 25 50
Feet

Data Sources:

Imagery: Bing Maps

Topos: MicroPath

All other data: START





Figure 3c

Sample Location Map
414 Bowen Road

Park Street Site
Bennington, Vermont

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042

TDD Number: 12-03-0002
Created by: L. Long
Created on: 25 September 2012
Modified by: C. Dupree
Modified on: 22 October 2012

Legend

○ Soil Sample Location



0 25 50
Feet

Data Sources:

Imagery: Bing Maps
Topos: MicroPath
All other data: START





Figure 3d
Sample Location Map
538 Bowen Road

Park Street Site
Bennington, Vermont

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042
TDD Number: 12-03-0002
Created by: L. Long
Created on: 25 September 2012
Modified by: C. Dupree
Modified on: 22 October 2012

Legend

○ Soil Sample Location



0 25 50
 Feet

Data Sources:

Imagery: Bing Maps
 Topos: MicroPath
 All other data: START



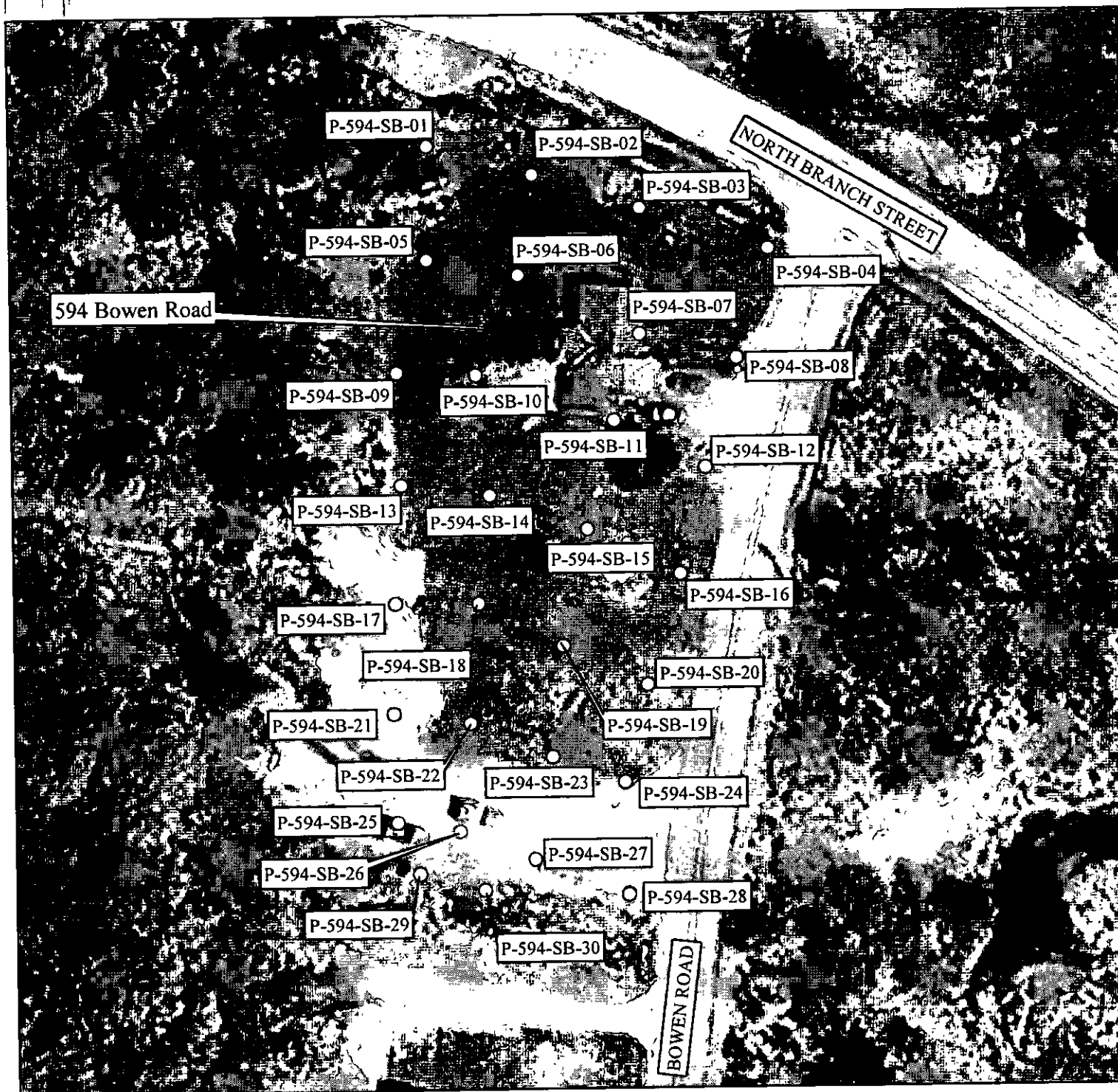


Figure 3e

**Sample Location Map
594 Bowen Road**

**Park Street Site
Bennington, Vermont**

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042
TDD Number: 12-03-0002
Created by: L. Long
Created on: 25 September 2012
Modified by: C. Dupree
Modified on: 22 October 2012

Legend

○ Soil Sample Location



0 25 50 100
Feet

Data Sources:

Imagery: Bing Maps
Topos: MicroPath
All other data: START



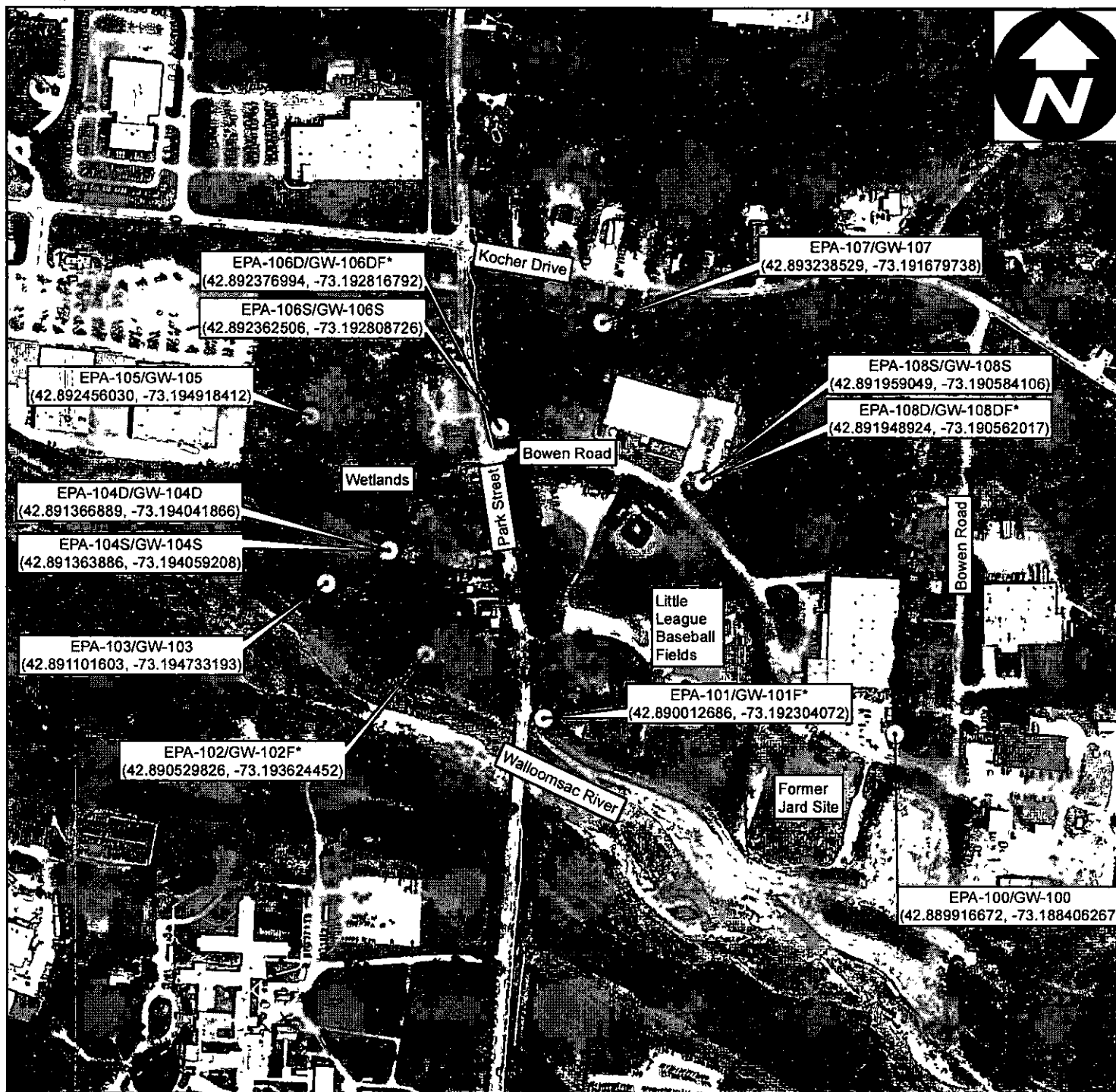


Figure 4
Monitoring Well Location Map

Park Street Site
Park Street
Bennington, Vermont

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042
TDD Number: 12-03-0002
Created by: Eric D. Ackerman
Created on: 23 March 2012
Modified by: B. Mahany
Modified on: 6 September 2012

Legend

○ Well Location

Monitoring Well Number/
Sample Location Number

*Samples collected from these wells
were filtered in the field.

Feet
0 250 500

Data Sources:
Imagery: Bing Maps Aerial (Microsoft Corp)
All other data: START



Appendix B

Tables

Table 1	Soil Sample Descriptions
Table 2	Sediment Sample Descriptions
Table 3	Summary of Air Sample Results
Table 4	PCB Field Screening Results
Table 5	Summary of Polychlorinated Biphenyl Results

TABLE 1
SOIL SAMPLE DESCRIPTIONS
PARK STREET
BENNINGTON, VERMONT

Sample Location	Sample Number	Sample Depth	Collection Date	Sample Type	Sample Description	Comments
R01-120403CY-0147	P-410-SS-01	0-3 in.	8/8/12	Composite	Brown, fine to coarse SAND, some coarse gravel.	Collected from the basement near oil tank, wet.
R01-120403CY-0148	P-410-SS-02	0-3 in.	8/8/12	Composite	Brown, fine to coarse SAND, some coarse gravel.	Collected on the side of the wall by the tank, wet.
R01-120403CY-0149	P-410-SS-03	0-3 in.	8/8/12	Composite	Brown, fine to coarse SAND, some coarse gravel.	Collected on the side of the wall by the well, moist.
R01-120403CY-0150	P-414-SB-01	0-12 in.	8/8/12	Grab	Medium to dark brown, fine to coarse SAND, little fine to coarse gravel and silt, trace organics.	
R01-120403CY-0151	P-414-SB-02	0-12 in.	8/8/12	Grab	Dark brown, coarse SAND, some coarse gravel, trace organics.	
R01-120403CY-0152	P-414-SB-03	0-12 in.	8/8/12	Grab	Dark brown, fine SAND, little coarse gravel, trace organics.	
R01-120403CY-0153	P-414-SB-04	0-12 in.	8/8/12	Grab	Medium brown to gray, fine to coarse SAND, some fine to coarse gravel, little silt, trace organics.	
R01-120403CY-0154	P-414-SB-05	0-12 in.	8/8/12	Grab	Light to dark brown, fine SAND, trace coarse gravel, trace organics.	
R01-120403CY-0155	P-414-SB-06	0-12 in.	8/8/12	Grab	Medium brown, fine SAND and SILT, trace fine gravel, trace organics.	
R01-120403CY-0156	P-414-SB-07	0-12 in.	8/8/12	Grab	Black, fine to coarse SAND, little fine to coarse gravel and silt, trace organics	
R01-120403CY-0157	P-414-SB-08	0-12 in.	8/8/12	Grab	Light brown, fine SAND, little coarse gravel, trace organics.	
R01-120403CY-0158	P-414-SB-09	0-12 in.	8/8/12	Grab	Medium to dark brown, fine to coarse SAND, little silt, trace fine to coarse gravel, trace organics.	
R01-120403CY-0159	P-414-SB-10	0-12 in.	8/8/12	Grab	Dark brown to black, coarse SAND, trace coarse gravel, trace organics.	
R01-120403CY-0160	P-414-SB-11	0-12 in.	8/8/12	Grab	Dark brown, fine SAND, trace coarse gravel, trace organics.	
R01-120403CY-0161	P-414-SB-12	0-12 in.	8/8/12	Grab	Light brown, fine SAND, little silt, trace fine gravel and organics.	
R01-120403CY-0162	P-538-SB-01	0-12 in.	8/8/12	Grab	Dark to light brown, fine SAND, little coarse gravel, trace organics.	A100.
R01-120403CY-0163	P-538-SB-02	0-12 in.	8/8/12	Grab	Reddish brown to brown, coarse SAND, some coarse gravel, trace organics.	B100.
R01-120403CY-0164	P-538-SB-03	0-12 in.	8/8/12	Grab	Dark brown to gray, fine SAND, trace coarse gravel, trace organics.	C100.
R01-120403CY-0165	P-538-SB-04	0-12 in.	8/8/12	Grab	Light brown, fine to coarse SAND, little fine to coarse gravel and silt, trace organics.	D100.
R01-120403CY-0166	P-538-SB-05	0-12 in.	8/8/12	Grab	Medium brown, fine SAND and SILT, trace fine to coarse gravel, trace organics.	E100.
R01-120403CY-0167	P-538-SB-06	0-12 in.	8/8/12	Grab	Light brown to gray, SILT and fine SAND, little clay, trace fine gravel, trace organics.	E050.
R01-120403CY-0168	P-538-SB-07	0-12 in.	8/8/12	Grab	Light to medium brown, fine to coarse SAND, little fine to coarse gravel, trace silt, trace organics.	D050.
R01-120403CY-0169	P-538-SB-08	0-12 in.	8/8/12	Grab	Dark brown, fine SAND, little coarse gravel, trace organics.	C050.
R01-120403CY-0170	P-538-SB-09	0-12 in.	8/8/12	Grab	Light to dark brown, fine SAND, little coarse gravel, trace organics.	B050.
R01-120403CY-0171	P-538-SB-10	0-12 in.	8/8/12	Grab	Dark brown, coarse SAND, some coarse gravel.	A050.
R01-120403CY-0172	P-538-SB-11	0-12 in.	8/8/12	Grab	Dark brown, coarse SAND, some coarse gravel, trace organics.	A000.
R01-120403CY-0173	P-538-SB-12	0-12 in.	8/8/12	Grab	Gray, SILT and fine SAND, trace fine to coarse gravel, trace organics.	B000.
R01-120403CY-0174	P-538-SB-13	0-12 in.	8/8/12	Grab	Medium brown, fine SAND and SILT, trace fine to coarse gravel, trace organics.	C000.
R01-120403CY-0175	P-538-SB-14	0-12 in.	8/8/12	Grab	Gray, fine SAND and SILT, trace organics.	D000.
R01-120403CY-0176	P-538-SB-15	0-12 in.	8/8/12	Grab	Dark gray, SILT and CLAY, little fine sand, trace organics.	E000.
R01-120403CY-0177	P-594-SB-01	0-12 in.	8/8/12	Grab	0-8 in. = Sod, fill-like material. 8-12 in. = Gray, fine to coarse SAND and GRAVEL.	A000.
R01-120403CY-0178	P-594-SB-02	0-12 in.	8/8/12	Grab	Brown, fine to coarse SAND and SILT, some clay, trace organics (roots).	A050, moist.
R01-120403CY-0179	P-594-SB-03	0-12 in.	8/8/12	Grab	Dark brown, fine SAND and SILT, trace roots, trace coarse gravel.	A100.

TABLE 1
SOIL SAMPLE DESCRIPTIONS
PARK STREET
BENNINGTON, VERMONT

Sample Location	Sample Number	Sample Depth	Collection Date	Sample Type	Sample Description	Comments
R01-120403CY-0180	P-594-SB-04	0-12 in.	8/8/12	Grab	Orange and dark brown, fine to coarse SAND and SILT, little fine to coarse gravel, trace organics (roots).	A150.
R01-120403CY-0181	P-594-SB-05	0-12 in.	8/8/12	Grab	Light brown to brown, fine to coarse SAND and SILT, trace organics, trace coarse gravel.	B000.
R01-120403CY-0182	P-594-SB-06	0-12 in.	8/8/12	Grab	Light brown, fine to coarse SAND and SILT, trace clay, trace organics, trace fine gravel.	B050.
R01-120403CY-0183	P-594-SB-07	0-12 in.	8/8/12	Grab	Orange and brown, fine SAND and SILT, little fine to coarse gravel.	B100.
R01-120403CY-0184	P-594-SB-08	0-12 in.	8/8/12	Grab	Brown, fine to coarse GRAVEL and SILT, some fine to coarse sand, trace organics (roots).	B150.
R01-120403CY-0187	P-594-SB-09	0-12 in.	8/9/12	Grab	Light brown, fine SAND, little silt, trace fine gravel and organics.	C000.
R01-120403CY-0188	P-594-SB-10	0-12 in.	8/9/12	Grab	Medium brown, SILT, some fine to coarse sand, trace fine to coarse gravel and organics.	C050.
R01-120403CY-0189	P-594-SB-11	0-12 in.	8/9/12	Grab	Medium to light brown, SILT, some fine to coarse sand, trace fine to coarse gravel and organics.	C100.
R01-120403CY-0190	P-594-SB-12	0-12 in.	8/9/12	Grab	Medium to light brown, fine to coarse SAND and SILT, some fine to coarse gravel, trace organics.	C150.
R01-120403CY-0191	P-594-SB-13	0-12 in.	8/9/12	Grab	Light brown, fine SAND, little coarse gravel, trace organics.	D000.
R01-120403CY-0192	P-594-SB-14	0-12 in.	8/9/12	Grab	Light brown to orange, fine SAND, little coarse gravel, trace organics.	D050.
R01-120403CY-0193	P-594-SB-15	0-12 in.	8/9/12	Grab	Dark brown, fine SAND, trace coarse gravel, trace organics.	D100.
R01-120403CY-0194	P-594-SB-16	0-12 in.	8/9/12	Grab	Dark gray to dark brown, fine SAND, trace gravel, trace organics.	D150.
R01-120403CY-0195	P-594-SB-17	0-12 in.	8/9/12	Grab	Gray, fine SAND and SILT, trace organics.	E000.
R01-120403CY-0196	P-594-SB-18	0-12 in.	8/9/12	Grab	Light brown, fine to coarse SAND, some fine to coarse gravel, little silt, trace organics.	E050.
R01-120403CY-0197	P-594-SB-19	0-12 in.	8/9/12	Grab	Medium to light brown, fine to coarse SAND, some fine to coarse gravel, little silt, trace organics.	E100.
R01-120403CY-0198	P-594-SB-20	0-12 in.	8/9/12	Grab	Gray, fine to coarse SAND, some fine to coarse gravel, little silt, trace organics.	E150.
R01-120403CY-0199	P-594-SB-21	0-12 in.	8/9/12	Grab	Light brown, coarse SAND, little coarse gravel.	F000.
R01-120403CY-0200	P-594-SB-22	0-12 in.	8/9/12	Grab	Light to reddish brown, coarse SAND, some coarse gravel, trace organics.	F050.
R01-120403CY-0201	P-594-SB-23	0-12 in.	8/9/12	Grab	Dark brown, coarse SAND, little coarse gravel, trace organics.	F100.
R01-120403CY-0202	P-594-SB-24	0-12 in.	8/9/12	Grab	Light brown, coarse SAND, some coarse gravel.	F150.
R01-120403CY-0203	P-594-SB-25	0-12 in.	8/9/12	Grab	Dark brown, SILT and fine to coarse SAND, little fine to coarse gravel, trace organics.	G000.
R01-120403CY-0204	P-594-SB-26	0-12 in.	8/9/12	Grab	Light brown, fine to coarse SAND, little fine to coarse gravel, trace silt and organics.	G050.
R01-120403CY-0205	P-594-SB-27	0-12 in.	8/9/12	Grab	Light to medium brown, fine to coarse SAND, little fine to coarse gravel, trace silt.	G100.
R01-120403CY-0206	P-594-SB-28	0-12 in.	8/9/12	Grab	Light brown, fine to coarse SAND, little fine to coarse gravel, trace silt and organics.	G150.
R01-120403CY-0207	P-594-SB-29	0-12 in.	8/9/12	Grab	Medium brown, coarse SAND, little coarse gravel.	H000.
R01-120403CY-0208	P-594-SB-30	0-12 in.	8/9/12	Grab	Reddish brown to gray, coarse SAND, little coarse gravel, trace organics.	H050.

NOTES:

in. = inches

TABLE 2
SEDIMENT SAMPLE DESCRIPTIONS
PARK STREET
BENNINGTON, VERMONT

Sample Number	Sample Location	Sample Depth (In.)	Collection Date	Sample Type	Sample Description	Comments
R01-120403CY-0094	SD-501	0-12	8/7/2012	Grab	Dark brown, CLAY and SILT, trace organics (roots).	Moist, A000.
R01-120403CY-0095	SD-502	0-12	8/7/2012	Grab	Dark brown, SILT, some clay, trace organics (roots).	Moist, A100.
R01-120403CY-0097	SD-503	0-12	8/7/2012	Grab	Dark brown, SILT, some clay, trace organics (roots), trace coarse gravel (rocks).	A200.
R01-120403CY-0098	SD-504	0-12	8/7/2012	Grab	Light brown, SILT, trace clay, trace organics (roots), trace coarse gravel (rocks and brick).	A300.
R01-120403CY-0099	SD-505	0-12	8/7/2012	Grab	Light brown, SILT and SAND, some organics (grass and roots), trace coarse gravel (rocks).	A350, next to Resident's fence.
R01-120403CY-0100	SD-506	0-12	8/7/2012	Grab	Light brown, fine SAND, some clay, trace coarse gravel, trace organics (roots).	B000.
R01-120403CY-0101	SD-507	0-6	8/7/2012	Grab	Light brown, fine to coarse SAND, major fine to coarse gravel, trace organics (roots).	B100, refusal after 6 inches.
R01-120403CY-0102	SD-508	0-12	8/7/2012	Grab	Medium brown, fine SAND, little coarse gravel, trace organics.	B200.
R01-120403CY-0103	SD-509	0-12	8/7/2012	Grab	Medium brown, fine SAND, little coarse gravel, trace organics.	B300.
R01-120403CY-0104	SD-510	0-12	8/7/2012	Grab	Dark brown, fine to medium SAND, little coarse gravel, trace organics.	B400.
R01-120403CY-0105	SD-511	0-6	8/7/2012	Grab	Light brown, fine to coarse SAND, major fine to coarse gravel, trace organics (roots).	C000, refusal after 6 inches
R01-120403CY-0106	SD-512	0-12	8/7/2012	Grab	Dark brown, fine to coarse SAND, some organics, trace coarse gravel.	C100, wet.
R01-120403CY-0107	SD-513	0-12	8/7/2012	Grab	Dark brown, fine SAND and SILT, little organics, trace coarse gravel.	C200, moist.
R01-120403CY-0108	SD-514	0-12	8/7/2012	Grab	Light brown to brown, SILT, some clay, trace organics.	D000, moist.
R01-120403CY-0109	SD-515	0-12	8/7/2012	Grab	Brown, SAND and SILT, trace organics (grass and roots).	D100.
R01-120403CY-0110	SD-516	0-12	8/7/2012	Grab	Brown to dark brown, medium SAND and SILT, trace coarse gravel, trace organics.	D200, moist.
R01-120403CY-0111	SD-517	0-12	8/7/2012	Grab	Medium to light brown, SILT and fine SAND, trace clay and organics.	E000.
R01-120403CY-0112	SD-518	0-12	8/7/2012	Grab	Medium brown and gray, SILT and CLAY, some fine sand, trace organics.	E100.
R01-120403CY-0113	SD-519	0-12	8/7/2012	Grab	Light brown, fine SAND and SILT, little clay, trace organics.	E200.
R01-120403CY-0114	SD-520	0-12	8/7/2012	Grab	Medium brown, SILT and CLAY, some fine sand, trace fine gravel and organics.	E300.
R01-120403CY-0115	SD-521	0-12	8/7/2012	Grab	Brown, fine SAND and SILT, some organics (roots), trace coarse gravel.	F000.
R01-120403CY-0116	SD-522	0-12	8/7/2012	Grab	Light brown, fine to coarse SAND, some silt, trace organics and coarse gravel.	F100
R01-120403CY-0117	SD-523	0-12	8/7/2012	Grab	Dark brown, ORGANICS.	F200, saturated in wetland/stream area.
R01-120403CY-0118	SD-524	0-12	8/7/2012	Grab	Light brown, fine to medium SILT, trace organics, trace coarse gravel.	G000.
R01-120403CY-0119	SD-525	0-12	8/7/2012	Grab	Light brown to brown, medium SAND and SILT, trace organics	G100, moist.
R01-120403CY-0120	SD-526	0-12	8/7/2012	Grab	Brown, fine to medium SAND and SILT, some organics (roots), trace coarse gravel.	G200.
R01-120403CY-0121	SD-527	0-12	8/7/2012	Grab	Medium brown, fine SAND, trace gravel, trace organics.	H000.
R01-120403CY-0122	SD-528	0-12	8/7/2012	Grab	Reddish brown, coarse to fine SAND, little coarse gravel, trace organics.	H100.

TABLE 2
SEDIMENT SAMPLE DESCRIPTIONS
PARK STREET
BENNINGTON, VERMONT

Sample Number	Sample Location	Sample Depth (in.)	Collection Date	Sample Type	Sample Description	Comments
R01-120403CY-0123	SD-529	0-12	8/7/2012	Grab	Light brown, fine SAND, trace gravel, trace organics.	H200.
R01-120403CY-0124	SD-530	0-12	8/7/2012	Grab	Dark brown, fine SAND, trace gravel, trace organics.	H300.
R01-120403CY-0125	SD-531	0-12	8/7/2012	Grab	Medium brown, fine SAND, little silt, trace organics.	I000.
R01-120403CY-0126	SD-532	0-12	8/7/2012	Grab	Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, trace organics.	I100.
R01-120403CY-0127	SD-533	0-12	8/7/2012	Grab	Medium to light brown, SILT and fine SAND, trace clay and organics.	I200.
R01-120403CY-0128	SD-534	0-12	8/7/2012	Grab	Medium brown, SILT and CLAY, little fine sand, little organics.	I300.
R01-120403CY-0129	SD-535	0-12	8/7/2012	Grab	Light brown, fine to medium SAND and SILT, some organics (roots).	J000.
R01-120403CY-0130	SD-536	0-12	8/7/2012	Grab	Light brown to brown, fine to medium SILT and SAND, some organics, trace coarse gravel.	J100.
R01-120403CY-0131	SD-537	0-12	8/7/2012	Grab	Brown, fine SAND and SILT, little organics (roots).	J200.
R01-120403CY-0132	SD-538	0-12	8/7/2012	Grab	Brown, fine SAND and SILT, some clay, trace organics (roots), trace coarse gravel.	J300, moist.
R01-120403CY-0133	SD-539	0-12	8/7/2012	Grab	Dark brown, fine SAND, little fine to coarse gravel, trace organics.	K100.
R01-120403CY-0134	SD-540	0-12	8/7/2012	Grab	Medium to light brown, fine SAND, little silt, trace fine gravel, trace organics.	K200.
R01-120403CY-0135	SD-541	0-12	8/7/2012	Grab	Medium brown, fine to medium SAND, little silt, trace organics.	K300.
R01-120403CY-0136	SD-542	0-12	8/7/2012	Grab	Dark gray, SILT, some fine to coarse sand, trace fine to coarse gravel and organics.	K400.
R01-120403CY-0137	SD-543	0-12	8/7/2012	Grab	Medium brown, fine SAND, trace gravel, trace organics.	L300.
R01-120403CY-0138	SD-544	0-12	8/7/2012	Grab	Medium brown, fine to coarse SAND, trace gravel, trace organics.	L400.
R01-120403CY-0139	SD-545	0-12	8/8/2012	Grab	Dark brown to black, SILT, little fine to medium sand, little organics, major coarse gravel.	M300.
R01-120403CY-0140	SD-546	0-12	8/8/2012	Grab	Light brown to dark brown, fine to coarse SAND, little fine to coarse gravel, some organics (roots).	M400.
R01-120403CY-0141	SD-547	0-12	8/8/2012	Grab	Light to medium brown, SILT, trace organics (roots), trace fine sand.	M500.
R01-120403CY-0142	SD-548	0-12	8/8/2012	Grab	Light brown to brown, SILT, trace organics (roots), trace fine sand.	M600, 20 meters south of GPS point to avoid yard.
R01-120403CY-0143	SD-549	0-6	8/8/2012	Grab	Dark brown, SILT, some organics (roots), trace coarse gravel.	N500, layer of gray clay starting at 6 inches.
R01-120403CY-0144	SD-550	0-12	8/8/2012	Grab	Light brown to grey, SILT and CLAY, some fine sand, some organics.	F250, wet.
R01-120403CY-0145	SD-551	0-12	8/8/2012	Grab	Brown, fine to coarse SAND, some silt, major coarse gravel.	Near residential pipe from the duck pond, saturated.
R01-120403CY-0146	SD-552	0-12	8/8/2012	Grab	Brown, fine to coarse SAND and SILT, some fine to coarse gravel, trace organics (roots).	Near EPA MW-104, saturated

GPS = Global Positioning System.

TABLE 3
SUMMARY OF AIR SAMPLE RESULTS
PARK STREET SITE
BENNINGTON, VERMONT
pg/m³

SAMPLE LOCATION	Kitchen	Basement	Dining Room	Second Floor	Living Room
SAMPLE NUMBER	D31306	D31307	D31308	D31309	D31310
LABORATORY NUMBER	33913-001	33913-002	33913-003	33913-004	33913-005
DATE SAMPLED	7/24/2012	7/24/2012	7/24/2012	7/24/2012	7/24/2012
COMPOUND					
Total monoCB	142	68.5	113	253	145
Total diCB	3,960 B	20,200 B	2,910 B	6,280 B	4,570 B
Total triCB	17,100	118,000	12,300	23,500	19,500
Total tetraCB	10,700	96,000	10,600	16,300	13,400
Total pentaCB	7,250	9,510	6,180	7,330	10,500
Total hexaCB	2,840	1,230	2,220	1,780	4,150
Total heptaCB	452	263	347	177	607
Total octaCB	36.4	20.2	41.1	ND	50.7
Total nonaCB	ND	ND	ND	ND	ND
Total decaCB	ND	ND	ND	ND	ND
Total Polychlorinated Biphenyls (PCBs)	42,500 B	246,000 B	34,800 B	55,600 B	52,900 B

NOTES:

- 1) Samples were analyzed by Vista Analytical of El Dorado Hills, California using EPA Method 1668A for total PCBs and homologues.
- 2) All results are in picograms per cubic meter (pg/m³).
- 3) ND = Not Detected.
- 4) B = The compound was also detected in the method blank.

TABLE 4
PCB FIELD SCREENING RESULTS
SOIL AND SEDIMENT SAMPLES COLLECTED AUGUST 2012
PARK STREET SITE
BENNINGTON, VERMONT
Results in mg/Kg

Sample Number	Aroclor 1242	Sample Location
SD-501	ND	A000 (Wetlands)
SD-502	ND	A100 (Wetlands)
SD-503	ND	A200 (Wetlands)
SD-504	ND	A300 (Wetlands)
SD-505	ND	A350 (Wetlands)
SD-506	ND	B000 (Wetlands)
SD-507	ND	B100 (Wetlands)
SD-507 (Lab Dup)	ND	B100 (Wetlands)
SD-508	ND	B200 (Wetlands)
SD-509	ND	B300 (Wetlands)
SD-510	ND	B400 (Wetlands)
SD-511	ND	C000 (Wetlands)
SD-512	ND	C100 (Wetlands)
SD-513	0.3	C200 (Wetlands)
SD-514	ND	D000 (Wetlands)
SD-515	ND	D100 (Wetlands)
SD-516	ND	D200 (Wetlands)
SD-517	ND	E000 (Wetlands)
SD-518	ND	E100 (Wetlands)
SD-519	ND	E200 (Wetlands)
SD-520	ND	E300 (Wetlands)
SD-521	ND	F000 (Wetlands)
SD-522	ND	F100 (Wetlands)
SD-523	1.0	F200 (Wetlands)
SD-524	ND	G000 (Wetlands)
SD-525	ND	G100 (Wetlands)
SD-526	ND	G200 (Wetlands)
SD-526 (Lab Dup)	ND	G200 (Wetlands)
SD-527	ND	H000 (Wetlands)
SD-528	ND	H100 (Wetlands)
SD-529	ND	H200 (Wetlands)
SD-530	ND	H300 (Wetlands)
SD-531	ND	I000 (Wetlands)
SD-532	ND	I100 (Wetlands)
SD-533	ND	I200 (Wetlands)
SD-534	ND	I300 (Wetlands)
SD-535	ND	J000 (Wetlands)
SD-536	ND	J100 (Wetlands)
SD-537	ND	J200 (Wetlands)
SD-538	ND	J300 (Wetlands)
SD-539	ND	K100 (Wetlands)
SD-540	ND	K200 (Wetlands)
SD-540 (Lab Dup)	ND	K200 (Wetlands)
SD-541	ND	K300 (Wetlands)
SD-542	0.3	K400 (Wetlands)
SD-543	ND	L300 (Wetlands)
SD-544	ND	L400 (Wetlands)
SD-545	ND	M300 (Wetlands)
SD-546	ND	M400 (Wetlands)
SD-547	ND	M500 (Wetlands)
SD-548	ND	M600 (Wetlands)
SD-549	ND	N500 (Wetlands)
SD-549 (Lab Dup)	ND	N500 (Wetlands)
SD-550	0.3	F250 (Wetlands)

TABLE 4

PCB FIELD SCREENING RESULTS
SOIL AND SEDIMENT SAMPLES COLLECTED AUGUST 2012
PARK STREET SITE
BENNINGTON, VERMONT
Results in mg/Kg

Sample Number	Aroclor 1242	Sample Location
SD-551	ND	at 410 Park Street
SD-552	ND	at 410 Park Street
P-410-SS-01	ND	at 410 Park Street
P-410-SS-02	ND	at 410 Park Street
P-410-SS-03	ND	at 410 Park Street
P-414-SB-01	ND	at 414 Bowen Road
P-414-SB-02	ND	at 414 Bowen Road
P-414-SB-03	ND	at 414 Bowen Road
P-414-SB-04	ND	at 414 Bowen Road
P-414-SB-05	ND	at 414 Bowen Road
P-414-SB-06	ND	at 414 Bowen Road
P-414-SB-07	ND	at 414 Bowen Road
P-414-SB-08	ND	at 414 Bowen Road
P-414-SB-09	ND	at 414 Bowen Road
P-414-SB-10	ND	at 414 Bowen Road
P-414-SB-11	ND	at 414 Bowen Road
P-414-SB-12	ND	at 414 Bowen Road
P-414-SB-12 (Lab Dup)	ND	at 414 Bowen Road
P-538-SB-01	ND	at 538 Bowen Road
P-538-SB-02	ND	at 538 Bowen Road
P-538-SB-03	ND	at 538 Bowen Road
P-538-SB-04	ND	at 538 Bowen Road
P-538-SB-05	ND	at 538 Bowen Road
P-538-SB-06	ND	at 538 Bowen Road
P-538-SB-07	ND	at 538 Bowen Road
P-538-SB-08	ND	at 538 Bowen Road
P-538-SB-09	ND	at 538 Bowen Road
P-538-SB-10	ND	at 538 Bowen Road
P-538-SB-11	ND	at 538 Bowen Road
P-538-SB-12	ND	at 538 Bowen Road
P-538-SB-13	ND	at 538 Bowen Road
P-538-SB-14	ND	at 538 Bowen Road
P-538-SB-15	ND	at 538 Bowen Road
P-594-SB-01	ND	at 594 Bowen Road
P-594-SB-02	ND	at 594 Bowen Road
P-594-SB-03	ND	at 594 Bowen Road
P-594-SB-04	ND	at 594 Bowen Road
P-594-SB-05	ND	at 594 Bowen Road
P-594-SB-06	ND	at 594 Bowen Road
P-594-SB-07	ND	at 594 Bowen Road
P-594-SB-08	ND	at 594 Bowen Road
P-594-SB-09	ND	at 594 Bowen Road
P-594-SB-10	ND	at 594 Bowen Road
P-594-SB-11	ND	at 594 Bowen Road
P-594-SB-12	ND	at 594 Bowen Road
P-594-SB-13	ND	at 594 Bowen Road
P-594-SB-14	ND	at 594 Bowen Road
P-594-SB-15	ND	at 594 Bowen Road
P-594-SB-16	ND	at 594 Bowen Road
P-594-SB-17	ND	at 594 Bowen Road
P-594-SB-18	ND	at 594 Bowen Road
P-594-SB-19	ND	at 594 Bowen Road
P-594-SB-20	ND	at 594 Bowen Road
P-594-SB-21	ND	at 594 Bowen Road
P-594-SB-22	ND	at 594 Bowen Road

TABLE 4

**PCB FIELD SCREENING RESULTS
SOIL AND SEDIMENT SAMPLES COLLECTED AUGUST 2012
PARK STREET SITE
BENNINGTON, VERMONT
Results in mg/Kg**

Sample Number	Aroclor 1242	Sample Location
P-594-SB-23	ND	at 594 Bowen Road
P-594-SB-24	ND	at 594 Bowen Road
P-594-SB-25	ND	at 594 Bowen Road
P-594-SB-26	ND	at 594 Bowen Road
P-594-SB-27	ND	at 594 Bowen Road
P-594-SB-28	ND	at 594 Bowen Road
P-594-SB-28 (Lab Dup)	ND	at 594 Bowen Road
P-594-SB-29	ND	at 594 Bowen Road
P-594-SB-30	ND	at 594 Bowen Road

NOTES:

- 1) Soil samples analyzed using U.S. EPA Office of Environmental Measurement and Evaluation (OEME) Region I SOP, FLDPCB2, PCBs Field Testing for Soil and Sediment Samples.
- 2) PCB = Polychlorinated Biphenyl
- 3) Results in milligrams per Kilogram (mg/Kg).
- 4) PCB reported as "A1242 weathered" could very well be PCB A1016 or PCB A1232.
- 5) ND = Not Detected.
- 6) Lab Dup = Laboratory Duplicate Sample.

TABLE 5

**SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SOIL AND SEDIMENT SAMPLES COLLECTED IN AUGUST 2012
PARK STREET SITE
BENNINGTON, VERMONT
Results in mg/Kg**

SAMPLE LOCATION	SD-513	SD-516	SD-519	SD-523
SAMPLE NUMBER	R01-120403CY-0107	R01-120403CY-0110	R01-120403CY-0113	R01-120403CY-0117
DEPTH	0-12 inches	0-12 inches	0-12 inches	0-12 inches
COMPOUND				
Aroclor-1242	0.25 P	ND	ND	3.2 P
Aroclor-1260	ND	ND	ND	ND

SAMPLE LOCATION	SD-542	SD-545	SD-550	P-410-SS-01
SAMPLE NUMBER	R01-120403CY-0136	R01-120403CY-0139	R01-120403CY-0144	R01-120403CY-0147
DEPTH	0-12 inches	0-12 inches	0-12 inches	0-3 inches
COMPOUND				
Aroclor-1242	0.25	ND	ND	ND
Aroclor-1260	ND	ND	ND	ND

SAMPLE LOCATION	P-410-SS-02	P-410-SS-03	P-414-SB-02	P-414-SB-07
SAMPLE NUMBER	R01-120403CY-0148	R01-120403CY-0149	R01-120403CY-0151	R01-120403CY-0156
DEPTH	0-3 inches	0-3 inches	0-12 inches	0-12 inches
COMPOUND				
Aroclor-1242	0.39	ND	ND	ND
Aroclor-1260	0.22	ND	ND	ND

NOTES:

- 1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL3.SOP, PCBs Medium level in Soil and Sediments.
- 2) All Results in Milligrams per Kilogram (mg/Kg).
- 3) ND = Not Detected.
- 4) P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported. See OEME Analytical Data reports.
- 5) * = SD-600 is a field duplicate sample of SD-519 submitted for confirmation analysis.
- 6) ** = P-414-SB-100 is a field duplicate sample of P-414-SB-10 submitted for confirmation analysis.

TABLE 5

**SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SOIL AND SEDIMENT SAMPLES COLLECTED IN AUGUST 2012
PARK STREET SITE
BENNINGTON, VERMONT
Results in mg/Kg**

SAMPLE LOCATION SAMPLE NUMBER DEPTH	P-414-SB-09 R01-120403CY-0158 0-12 inches	P-414-SB-10 R01-120403CY-0159 0-12 inches	P-538-SB-01 R01-120403CY-0162 0-12 inches	P-538-SB-14 R01-120403CY-0175 0-12 inches
COMPOUND				
Aroclor-1242	ND	ND	ND	ND
Aroclor-1260	ND	ND	ND	ND

SAMPLE LOCATION SAMPLE NUMBER DEPTH	SD-600* R01-120403CY-0185 0-12 inches	P-414-SB-100** R01-120403CY-0186 0-12 inches	P-594-SB-12 R01-120403CY-0190 0-12 inches	P-594-SB-17 R01-120403CY-0195 0-12 inches
COMPOUND				
Aroclor-1242	ND	ND	ND	ND
Aroclor-1260	ND	ND	ND	ND

SAMPLE LOCATION SAMPLE NUMBER DEPTH	P-594-SB-20 R01-120403CY-0198 0-12 inches			
COMPOUND				
Aroclor-1242	ND			
Aroclor-1260	ND			

NOTES:

- 1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL3.SOP, PCBs Medium level in Soil and Sediments.
- 2) All Results in Milligrams per Kilogram (mg/Kg).
- 3) ND = Not Detected.
- 4) P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported. See OEME Analytical Data reports.
- 5) * = SD-600 is a field duplicate sample of SD-519 submitted for confirmation analysis.
- 6) ** = P-414-SB-100 is a field duplicate sample of P-414-SB-10 submitted for confirmation analysis.

Appendix C
Photodocumentation Log

PHOTODOCUMENTATION LOG
Park Street Site • Bennington, Vermont

TOP



SCENE: View of air sample collected from the basement at 403 Park Street.

DATE: 24 July 2012

TIME: 1203 hours

PHOTOGRAPHER: J. Burton

CAMERA: iPhone 4S

TOP



SCENE: View of air sample collected in the living room at 403 Park Street.

DATE: 24 July 2012

TIME: 1222 hours

PHOTOGRAPHER: J. Burton

CAMERA: iPhone 4S

TDD No. 12-03-0002

Page 1 of 8

HRS Reference #88

TASK No. 0779

Page 35 of 165

PHOTODOCUMENTATION LOG
Park Street Site • Bennington, Vermont

TOP



SCENE: View of air sample collected in the dining room at 403 Park Street.

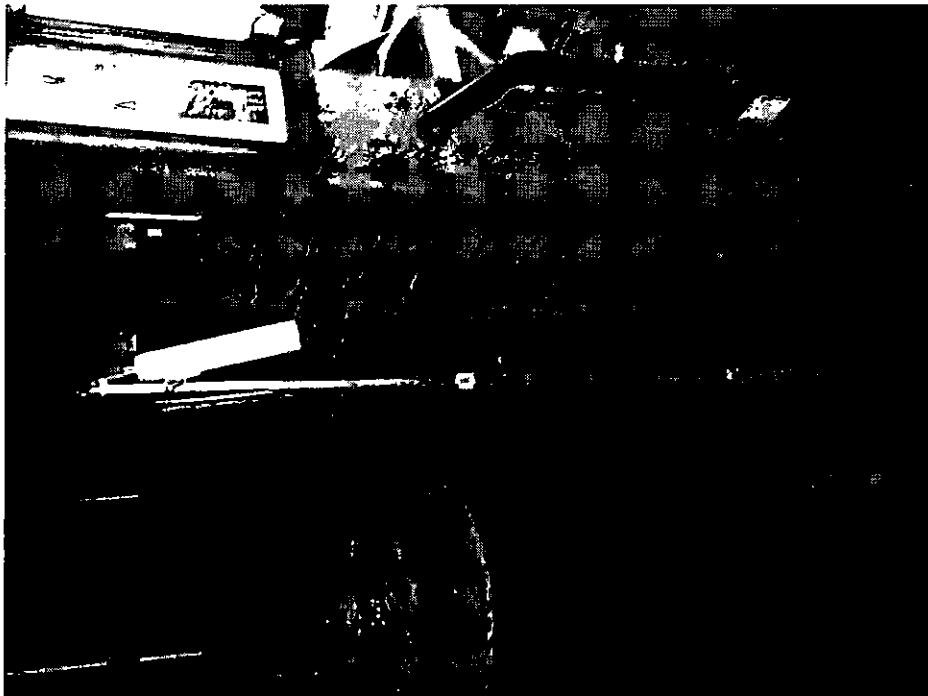
DATE: 24 July 2012

TIME: 1223 hours

PHOTOGRAPHER: J. Burton

CAMERA: iPhone 4S

TOP



SCENE: View of air sample collected in the kitchen at 403 Park Street.

DATE: 24 July 2012

TIME: 1223 hours

PHOTOGRAPHER: J. Burton

CAMERA: iPhone 4S

PHOTODOCUMENTATION LOG
Park Street Site • Bennington, Vermont

TOP



SCENE: View of air sample collected from the second floor of 403 Park Street.

DATE: 25 July 2012

TIME: 1209 hours

PHOTOGRAPHER: J. Burton

CAMERA: iPhone 4S



SCENE: View of the Walloomsac River at the edge of the wetland sampling area. Photograph taken facing south.

DATE: 8 August 2012

TIME: 0804 hours

PHOTOGRAPHER: L. Long

CAMERA: iPhone 4S

PHOTODOCUMENTATION LOG
Park Street Site • Bennington, Vermont



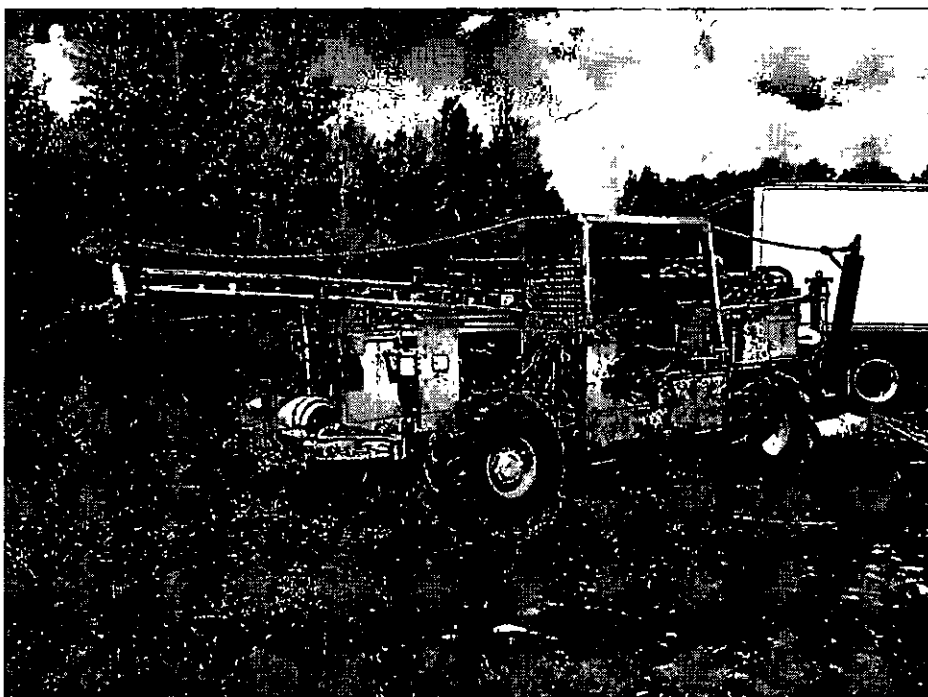
SCENE: View in the middle of the wetland sampling area. Photograph taken facing east.

DATE: 8 August 2012

TIME: 1413 hours

PHOTOGRAPHER: S. Bitzas

CAMERA: iPhone 4S



SCENE: View of New Hampshire Boring, Inc. drilling rig (CME-550X).

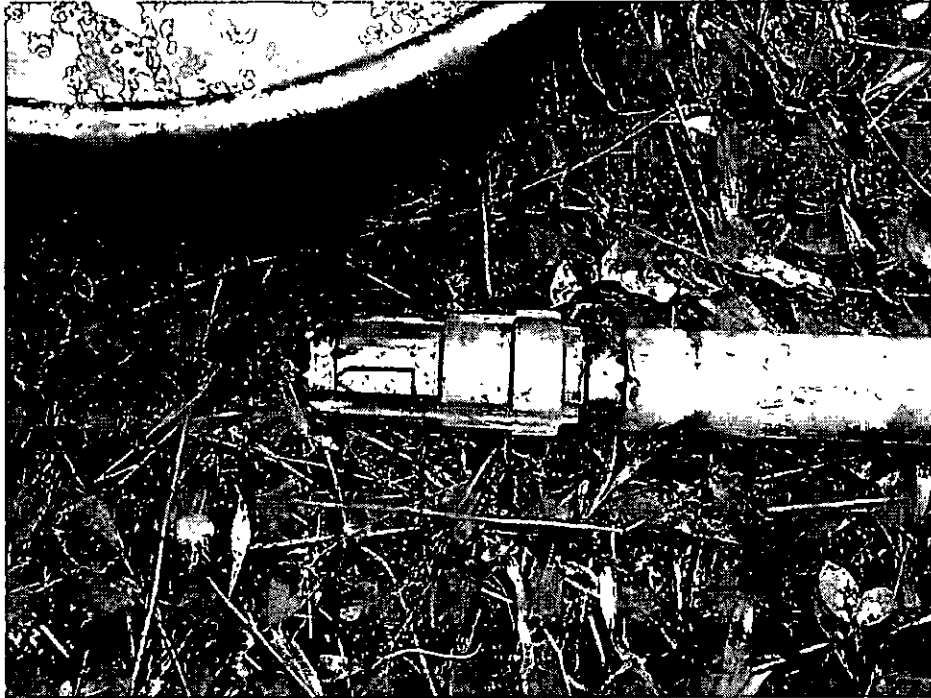
DATE: 16 August 2012

TIME: 1215 hours

PHOTOGRAPHER: G. Mavris

CAMERA: iPhone 4S

PHOTODOCUMENTATION LOG
Park Street Site • Bennington, Vermont



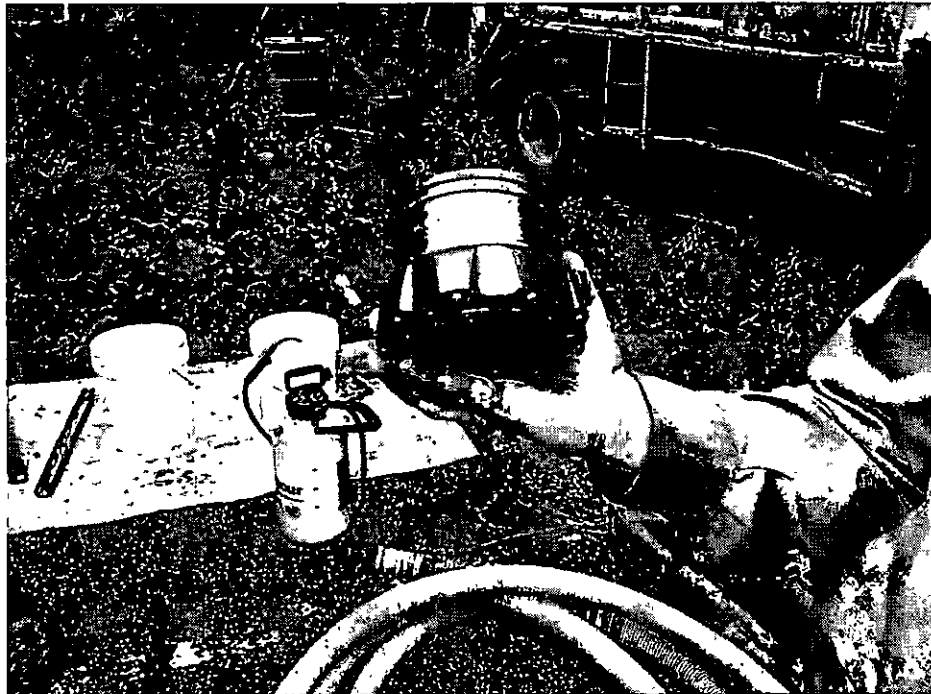
SCENE: Air hammer used in the ODEX drilling method.

DATE: 14 August 2012

PHOTOGRAPHER: G. Mavris

TIME: 1302 hours

CAMERA: iPhone 4S



SCENE: Close-up view of pilot bit with the carbide teeth, used in the ODEX drilling method.

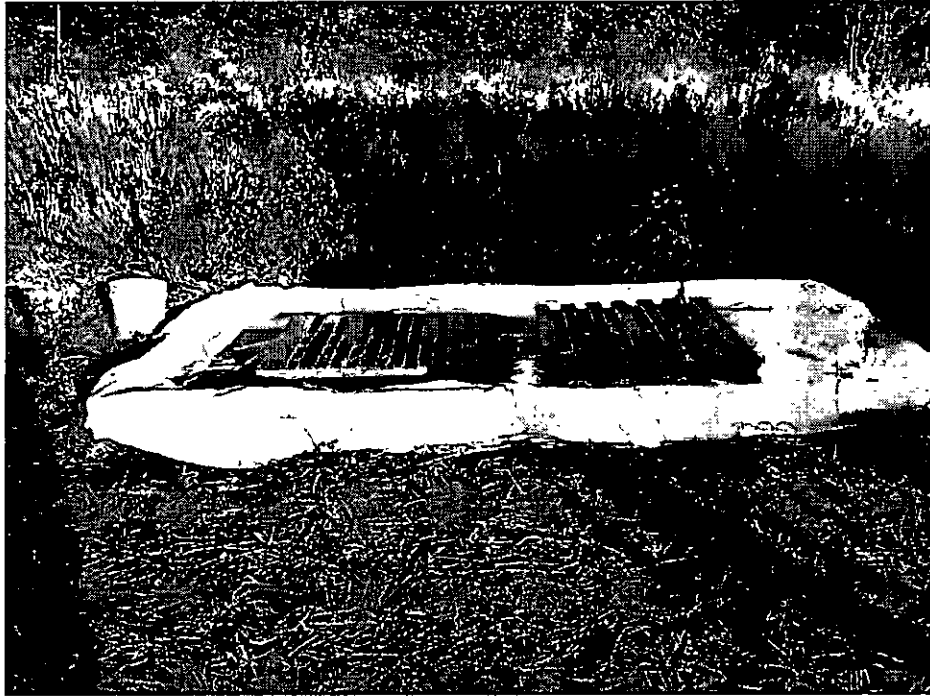
DATE: 28 August 2012

PHOTOGRAPHER: G. Mavris

TIME: 1057 hours

CAMERA: iPhone 4S

PHOTODOCUMENTATION LOG
Park Street Site • Bennington, Vermont



SCENE: Decontamination pad set up east of the shopping plaza.

DATE: 28 August 2012

TIME: 1057 hours

PHOTOGRAPHER: G. Mavris

CAMERA: iPhone 4S



SCENE: View of New Hampshire Boring, Inc. (NHB) drilling at EPA-105. Photograph taken facing east.

DATE: 17 August 2012

TIME: 0810 hours

PHOTOGRAPHER: G. Mavris

CAMERA: iPhone 4S

PHOTODOCUMENTATION LOG
Park Street Site • Bennington, Vermont



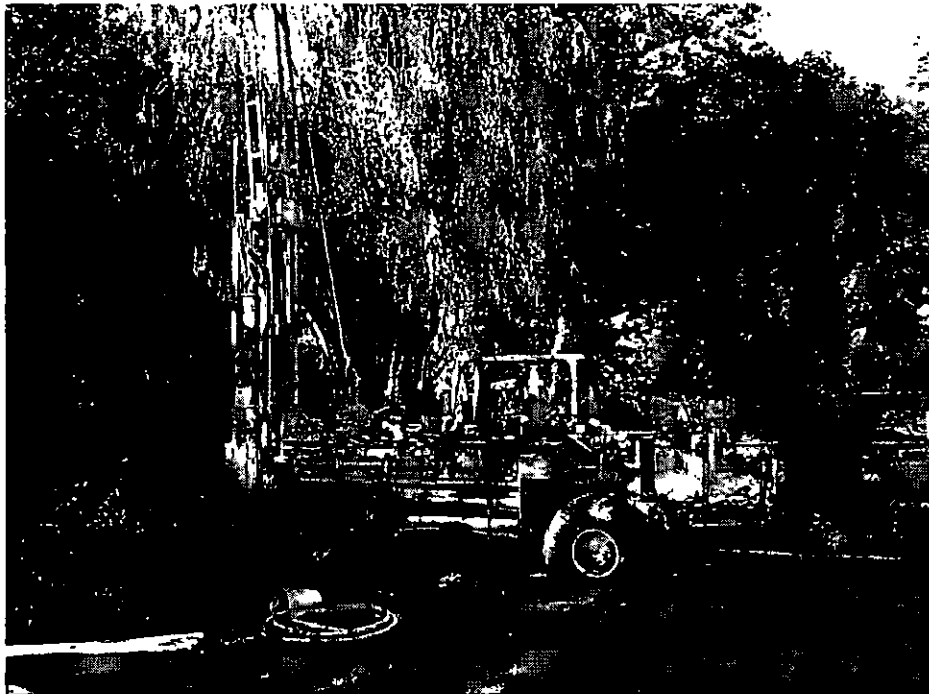
SCENE: View of New Hampshire Boring, Inc. (NHB) drilling at EPA-101 (residential property). Photograph taken facing west.

DATE: 22 August 2012

PHOTOGRAPHER: G. Mavris

TIME: 1623 hours

CAMERA: iPhone 4S



SCENE: View of New Hampshire Boring, Inc. (NHB) drilling at EPA-107 (residential property). Photograph taken facing west.

DATE: 29 August 2012

PHOTOGRAPHER: -G. Mavris

TIME: 0822 hours

CAMERA: iPhone 4S

PHOTODOCUMENTATION LOG
Park Street Site • Bennington, Vermont



SCENE: New Hampshire Boring, Inc. (NHB) installing EPA-104S in wetland area. Photograph taken facing northeast.
DATE: 22 August 2012
PHOTOGRAPHER: G. Mavris

TIME: 0809 hours
CAMERA: iPhone 4S



SCENE: View of investigation-derived waste (IDW) drum staging area located east of shopping plaza. Photograph taken facing west.
DATE: 30 August 2012
PHOTOGRAPHER: G. Mavris

TIME: 1425 hours
CAMERA: iPhone 4S

Appendix D
Chain-of-Custody Record

Case No. 0842F

CHAIN OF CUSTODY RECORD

Project Code: 12-03-0002
 Contact Name: John Burton
 Contact Phone: 978-552-2130

No: 1-072612-101519-0003

Date Shipped: 7/26/2012
 Airbill No: 8726484219280200

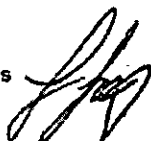
Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Volume	Vol Units	Avg_Flow	Flow_Units
	D31306	Kitchen	M1668	Air	7/24/2012	12:18	4996.53	Liters	3.465	L/min
	D31307	Basement	M1668	Air	7/24/2012	12:03	5322.96	Liters	3.696	L/min
	D31308	Dining Room	M1668	Air	7/24/2012	12:22	4912.89	Liters	3.407	L/min
	D31309	Second Floor	M1668	Air	7/24/2012	12:15	4890.24	Liters	3.396	L/min
	D31310	Living Room	M1668	Air	7/24/2012	12:20	4895.59	Liters	3.395	L/min
	D31311	Field Blank	M1668	Air	7/24/2012	12:25				
	D31312	Lot Blank	M1668	Air	7/25/2012	12:30				

Special Instructions: Total PCBs reporting limit 0.01 ug/m3.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

Samplers Signatures



CHAIN OF CUSTODY RECORD

Project Code: Park Street

Contact Name: Cathy Young

Contact Phone: 617-918-1217

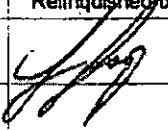


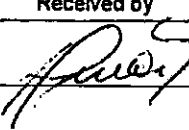
No: 1-080912-105002-0004

Date Shipped: 8/9/2012

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	MS/MSD
	R01-120403CY-0107	SD-513	C200	PCBs	Sediment	8/7/2012	10:30	1	8 oz Amber	
	R01-120403CY-0110	SD-516	D200	PCBs	Sediment	8/7/2012	10:42	1	8 oz Amber	
	R01-120403CY-0113	SD-519	E200	PCBs	Sediment	8/7/2012	10:00	1	8 oz Amber	
	R01-120403CY-0117	SD-523	F200	PCBs	Sediment	8/7/2012	12:30	1	8 oz Amber	
	R01-120403CY-0136	SD-542	K400	PCBs	Sediment	8/7/2012	14:50	1	8 oz Amber	
	R01-120403CY-0139	SD-545	M300	PCBs	Sediment	8/8/2012	08:00	1	8 oz Amber	
	R01-120403CY-0144	SD-550	F250	PCBs	Sediment	8/8/2012	08:15	2	8 oz Amber	Y
	R01-120403CY-0147	P-410-SS-01	Near tank	PCBs	Soil	8/8/2012	10:21	1	4 oz Amber	
	R01-120403CY-0148	P-410-SS-02	Wall near tank	PCBs	Soil	8/8/2012	10:26	1	4 oz Amber	
	R01-120403CY-0149	P-410-SS-03	Wall near well	PCBs	Soil	8/8/2012	10:30	1	4 oz Amber	
	R01-120403CY-0151	P-414-SB-02		PCBs	Soil	8/8/2012	12:00	1	4 oz Amber	
	R01-120403CY-0156	P-414-SB-07		PCBs	Soil	8/8/2012	12:00	1	4 oz Amber	
	R01-120403CY-0158	P-414-SB-09		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0159	P-414-SB-10		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0162	P-538-SB-01	A100	PCBs	Soil	8/8/2012	14:40	1	4 oz Amber	
	R01-120403CY-0175	P-538-SB-14	D000	PCBs	Soil	8/8/2012	14:05	2	4 oz Amber	Y
	R01-120403CY-0185	SD-600	E200	PCBs	Sediment	8/7/2012	10:00	1	8 oz Amber	
	R01-120403CY-0186	P-414-SB-100		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0190	P-594-SB-12	C150	PCBs	Soil	8/9/2012	09:10	1	4 oz Amber	

Special Instructions:

 SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/9/12		8-9-12	12:50h			8/10/12		8/9/12	11:12

CHAIN OF CUSTODY RECORD

No: 1-080912-105002-0004

Samplers Signatures

Project Code: Park Street

Contact Name: Cathy Young

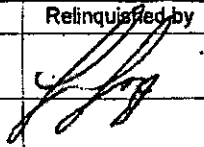


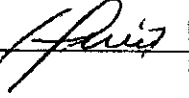
Date Shipped: 8/9/2012

Contact Phone: 617-918-1217

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	MS/MSD
	R01-120403CY-0195	P-594-SB-17	E000	PCBs	Soil	8/9/2012	09:30	1	4 oz Amber	
	R01-120403CY-0198	P-594-SB-20	E150	PCBs	Soil	8/9/2012	10:20	1	4 oz Amber	
	R01-120403CY-0209	TT2814		PCBs	Soil	8/9/2012	11:00	1	2 oz Amber	
	R01-120403CY-0210	RB-01	auger head	PCBs	Filtered Water	8/9/2012	11:30	2	1 liter amber	

Special Instructions:

 SAMPLES TRANSFERRED FROM
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/9/12		8-9-12	12:50 PM			8-10-12		8/9/12	11:20

USEPA

DateShipped: 8/30/2012

CarrierName: Hand Deliver

AirbillNo:

CHAIN OF CUSTODY RECORD

Park Street/MA

Case #:

No: 1-100112-141118-0006

Cooler #:

Lab: NERL

Lab Phone:

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	MS/MSD	Sample_Remarks
	R01-120403CY-0213	GW-100	PCBs	Ground Water	9/27/2012	13:15	1	1 liter amber		
	R01-120403CY-0214	GW-101	PCBs	Ground Water	9/27/2012	12:50	1	1 liter amber		
	R01-120403CY-0215	GW-102	PCBs	Ground Water	9/26/2012	15:00	1	1 liter amber		
	R01-120403CY-0216	GW-103	PCBs	Ground Water	9/26/2012	12:25	1	1 liter amber		
	R01-120403CY-0217	GW-104S	PCBs	Ground Water	9/26/2012	15:45	1	1 liter amber		
	R01-120403CY-0218	GW-104D	PCBs	Ground Water	9/26/2012	15:00	1	1 liter amber		
	R01-120403CY-0219	GW-105	PCBs	Ground Water	9/26/2012	15:20	1	1 liter amber		
	R01-120403CY-0220	GW-106S	PCBs	Ground Water	9/26/2012	17:45	1	1 liter amber		
	R01-120403CY-0221	GW-106D	PCBs	Ground Water	9/27/2012	11:30	1	1 liter amber		
	R01-120403CY-0222	GW-107	PCBs	Ground Water	9/26/2012	18:05	1	1 liter amber		
	R01-120403CY-0223	GW-108S	PCBs	Ground Water	9/27/2012	13:00	1	1 liter amber		
	R01-120403CY-0224	GW-108D	PCBs	Ground Water	9/27/2012	11:10	1	1 liter amber		
	R01-120403CY-0225	GW-109	PCBs	Ground Water	9/26/2012	15:00	1	1 liter amber		
	R01-120403CY-0226	RB-01	PCBs	Water	9/27/2012	15:00	1	1 liter amber		
	R01-120403CY-0227	PE-AA0269	PCBs	PE Water	9/26/2012	07:00	1	ampule		
	R01-120403CY-0228	GW-102-F	PCBs	Ground Water	9/26/2012	15:10	1	1 liter amber		
	R01-120403CY-0229	GW-101-F	PCBs	Ground Water	9/27/2012	12:55	1	1 liter amber		
	R01-120403CY-0230	GW-106D-F	PCBs	Ground Water	9/27/2012	11:35	1	1 liter amber		
	R01-120403CY-0231	GW-108D-F	PCBs	Ground Water	9/27/2012	11:15	1	1 liter amber		

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time

Appendix E

Analytical Data

Analytical Results Only
Memorandum
Analytical Data Packages
Analytical Data Packages

Air PUF samples for total PCBs and homologues
PCBs in Soil Field Analytical Results
PCBs in Water Low Level
PCBs Medium Level in Soil and Sediment



August 15, 2012

Vista Project I.D.: 33913

Mr. John C. Burton
Weston Solutions, Inc.
3 Riverside Drive
Andover, MA 01810

Dear Mr. Burton,

Enclosed are the results for the seven PUF samples received at Vista Analytical Laboratory on July 27, 2012 under your Project Name "12-03-0002". These samples were extracted and analyzed using EPA Method 1668A for total PCBs and homologues. A standard turnaround time was provided for this work.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at calvin@vista-analytical.com. Thank you for choosing Vista as part of your analytical support team.

Sincerely,

A handwritten signature in black ink, appearing to read "Calvin Tanaka".

Calvin Tanaka
Senior Scientist



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista Analytical Laboratory.



Table of Contents

Cover Letter.....	1
Table of Contents.....	2
Case Narrative.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	24
Certifications.....	25
Sample Receipt.....	26
Extraction Information.....	29
Sample Data - EPA Method 1668A.....	33
Continuing Calibration.....	449
Initial Calibration.....	599

Vista Project No. 33913
Case Narrative

Sample Condition on Receipt:

On July 27, 2012, Vista Analytical Laboratory received a total of seven PUF samples. The samples were received in good condition, but above the 6°C temperature requirements at 8.8°C. Mr. John Burton was notified of the temperature anomaly on July 27, 2012 and provided direction to proceed with the analysis. The samples were received and stored securely in accordance with Vista standard operating procedure (SOP) and EPA methodology.

Procedural Notes:

The method blank, field blank D31311 (Vista Analytical: 33913-006), and lot blank sample D31312 (Vista Analytical: 33913-007) results are based on 5,000 liters or 5.0 cubic meters of sample. This volume is comparable to the volume collected for the field samples.

The samples were extracted and analyzed for total polychlorinated biphenyls (PCBs) by EPA Method 1668A using a DB-1 GC column.

Analytical Notes:

EPA Method 1668A:

Holding Times

The method and SOP holding time criteria were met for the samples.

Quality Control:

The Initial and Continuing calibration verifications were within the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample was extracted and analyzed with the preparation batch. Total Dichlorobiphenyls were detected in the Method Blank. The OPR recoveries were within control limits.

Labeled Standard recoveries for all QC and field samples were within control limits.

Section I: Sample Inventory Report

Date Received: 7/27/2012
Project No.: 33913
Project Name: 12-03-0002

Lab. Sample ID	Client Sample ID	Component ID
001	D31306	PUF
002	D31307	PUF
003	D31308	PUF
004	D31309	PUF
005	D31310	PUF
006	D31311	PUF
007	D31312	PUF

Smpinvgnmm5.rpt

ANALYTICAL RESULTS

Method Blank				EPA Method 1668A		
Matrix: PUF		QC Batch No.: 4585		Lab Sample: 0-MB001		
Sample Size: 5.0 m3		Date Extracted: 4-Aug-12		Date Analyzed DB-1: 6-Aug-12		
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b Qualifiers
Total monoCB	ND	10.0		IS 13C-PCB-1	51.4	25 - 150
Total diCB	28.0	20.0		13C-PCB-3	57.7	25 - 150
Total triCB	ND	10.0		13C-PCB-4	79.4	25 - 150
Total tetraCB	ND	10.0		13C-PCB-11	84.3	25 - 150
Total pentaCB	ND	10.0		13C-PCB-9	80.5	25 - 150
Total hexaCB	ND	10.0		13C-PCB-19	52.4	25 - 150
Total heptaCB	ND	10.0		13C-PCB-28	78.1	25 - 150
Total octaCB	ND	10.0		13C-PCB-32	52.2	25 - 150
Total nonaCB	ND	10.0		13C-PCB-37	76.4	25 - 150
Total decaCB	ND	10.0		13C-PCB-47	86.2	25 - 150
Total PCB	28.0	20.0		13C-PCB-52	83.9	25 - 150
				13C-PCB-54	80.9	25 - 150
				13C-PCB-70	102	25 - 150
				13C-PCB-77	90.1	25 - 150
				13C-PCB-80	96.0	25 - 150
				13C-PCB-81	95.2	25 - 150
				13C-PCB-95	98.9	25 - 150
				13C-PCB-97	99.6	25 - 150
				13C-PCB-101	100	25 - 150
				13C-PCB-104	84.6	25 - 150
				13C-PCB-105	65.5	25 - 150
				13C-PCB-114	72.7	25 - 150
				13C-PCB-118	90.9	25 - 150
				13C-PCB-123	96.8	25 - 150
				13C-PCB-126	61.1	25 - 150
				13C-PCB-127	66.2	25 - 150
				13C-PCB-138	84.4	25 - 150
				13C-PCB-141	85.5	25 - 150
				13C-PCB-153	85.9	25 - 150

Page 1 of 2

Method Blank				EPA Method 1668A		
Matrix: PUF	QC Batch No.: 4585			Lab Sample: 0-MB001		
Sample Size: 5.0 m3	Date Extracted: 4-Aug-12			Date Analyzed DB-1: 6-Aug-12		
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b Qualifiers
				13C-PCB-155	114	25 - 150
				13C-PCB-156	99.7	25 - 150
				13C-PCB-157	104	25 - 150
				13C-PCB-159	93.1	25 - 150
				13C-PCB-167	98.2	25 - 150
				13C-PCB-169	93.5	25 - 150
				13C-PCB-170	103	25 - 150
				13C-PCB-180	120	25 - 150
				13C-PCB-188	82.3	25 - 150
				13C-PCB-189	106	25 - 150
				13C-PCB-194	92.8	25 - 150
				13C-PCB-202	111	25 - 150
				13C-PCB-206	106	25 - 150
				13C-PCB-208	107	25 - 150
				13C-PCB-209	95.7	25 - 150
				PS 13C-PCB-79	98.4	30 - 135
				13C-PCB-178	80.8	30 - 135
				a. Reporting limit.		
				b. Lower control limit - upper control limit		

OPR Results
EPA Method 1668A

Matrix:	PUF	QC Batch No.:	4585	Lab Sample:	0-OPR001			
Sample Size:	Sample	Date Extracted:	4-Aug-12	Date Analyzed DB-1:	6-Aug-12			
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits		Labeled Standard	%R	LCL-UCL	Qualifier
PCB-3	50.0	65.7	25 - 75	IS	13C-PCB-1	43.5	25 - 150	
PCB-15	100	124	50 - 150		13C-PCB-3	51.3	25 - 150	
PCB-28	50.0	36.9	25 - 75		13C-PCB-4	70.8	25 - 150	
PCB-77	50.0	47.7	25 - 75		13C-PCB-11	81.6	25 - 150	
PCB-106/118	100	100	50 - 150		13C-PCB-9	73.8	25 - 150	
PCB-156	50.0	45.3	25 - 75		13C-PCB-19	55.1	25 - 150	
PCB-180	50.0	48.8	25 - 75		13C-PCB-28	74.7	25 - 150	
PCB-202	50.0	50.9	25 - 75		13C-PCB-32	54.1	25 - 150	
PCB-207	50.0	47.1	25 - 75		13C-PCB-37	88.7	25 - 150	
PCB-209	50.0	48.9	25 - 75		13C-PCB-47	84.8	25 - 150	
					13C-PCB-54	74.8	25 - 150	
					13C-PCB-70	92.2	25 - 150	
					13C-PCB-77	84.0	25 - 150	
					13C-PCB-80	94.4	25 - 150	
					13C-PCB-81	84.7	25 - 150	
					13C-PCB-95	96.9	25 - 150	
					13C-PCB-97	97.5	25 - 150	
					13C-PCB-101	101	25 - 150	
					13C-PCB-104	83.8	25 - 150	
					13C-PCB-105	79.7	25 - 150	
					13C-PCB-114	84.3	25 - 150	
					13C-PCB-118	92.9	25 - 150	
					13C-PCB-123	96.0	25 - 150	
					13C-PCB-126	76.6	25 - 150	
					13C-PCB-127	81.4	25 - 150	
					13C-PCB-138	96.5	25 - 150	
					13C-PCB-141	104	25 - 150	
					13C-PCB-153	102	25 - 150	
					13C-PCB-155	105	25 - 150	
					13C-PCB-156	86.0	25 - 150	
				13C-PCB-157	93.9	25 - 150		
				13C-PCB-159	95.9	25 - 150		
				13C-PCB-167	91.5	25 - 150		
				13C-PCB-169	85.5	25 - 150		
				13C-PCB-170	111	25 - 150		
				13C-PCB-180	99.7	25 - 150		
				13C-PCB-188	101	25 - 150		
				13C-PCB-189	124	25 - 150		
				13C-PCB-194	92.8	25 - 150		

OPR Results				EPA Method 1668A		
Matrix:	PUF	QC Batch No.:	4585	Lab Sample:	0-OPR001	
Sample Size:	Sample	Date Extracted:	4-Aug-12	Date Analyzed DB-1:	6-Aug-12	
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits			
				13C-PCB-202	103	25 - 150
				13C-PCB-206	102	25 - 150
				13C-PCB-208	110	25 - 150
				13C-PCB-209	87.8	25 - 150

Sample ID: D31306				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-001		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 4.997 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 6-Aug-12			
Time Collected: 1218							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
Total monoCB	142	10.0	B	IS 13C-PCB-1	40.3	25 - 150	
Total diCB	3960	20.0		13C-PCB-3	43.3	25 - 150	
Total triCB	17100	10.0		13C-PCB-4	76.1	25 - 150	
Total tetraCB	10700	10.0		13C-PCB-11	85.6	25 - 150	
Total pentaCB	7250	10.0		13C-PCB-9	79.2	25 - 150	
Total hexaCB	2840	10.0		13C-PCB-19	42.4	25 - 150	
Total heptaCB	453	10.0		13C-PCB-28	84.4	25 - 150	
Total octaCB	36.4	10.0		13C-PCB-32	46.9	25 - 150	
Total nonaCB	ND	10.0	B	13C-PCB-37	90.4	25 - 150	
Total decaCB	ND	10.0		13C-PCB-47	79.4	25 - 150	
Total PCB	42500	20.0		13C-PCB-52	78.8	25 - 150	
				13C-PCB-54	65.3	25 - 150	
				13C-PCB-70	89.2	25 - 150	
				13C-PCB-77	83.9	25 - 150	
				13C-PCB-80	95.5	25 - 150	
				13C-PCB-81	90.1	25 - 150	
				13C-PCB-95	86.9	25 - 150	
				13C-PCB-97	94.4	25 - 150	
			13C-PCB-101	92.3	25 - 150		
			13C-PCB-104	77.5	25 - 150		
			13C-PCB-105	58.8	25 - 150		
			13C-PCB-114	70.4	25 - 150		
			13C-PCB-118	89.7	25 - 150		
			13C-PCB-123	93.9	25 - 150		
			13C-PCB-126	61.0	25 - 150		
			13C-PCB-127	59.4	25 - 150		
			13C-PCB-138	87.5	25 - 150		

Page 1 of 2

Sample ID: D31306				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-001		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 4.997 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 6-Aug-12			
Time Collected: 1218							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
				13C-PCB-141	88.1	25 - 150	
				13C-PCB-153	87.8	25 - 150	
				13C-PCB-155	93.9	25 - 150	
				13C-PCB-156	83.4	25 - 150	
				13C-PCB-157	87.2	25 - 150	
				13C-PCB-159	90.3	25 - 150	
				13C-PCB-167	89.6	25 - 150	
				13C-PCB-169	74.1	25 - 150	
				13C-PCB-170	84.0	25 - 150	
				13C-PCB-180	83.7	25 - 150	
				13C-PCB-188	83.6	25 - 150	
				13C-PCB-189	75.8	25 - 150	
				13C-PCB-194	89.3	25 - 150	
				13C-PCB-202	91.5	25 - 150	
				13C-PCB-206	107	25 - 150	
				13C-PCB-208	107	25 - 150	
				13C-PCB-209	93.5	25 - 150	
				PS 13C-PCB-79	102	30 - 135	
				13C-PCB-178	112	30 - 135	
				a. Reporting limit.			
				b. Lower control limit - upper control limit.			

Analyst: DMS

Page 2 of 2

Approved By:

Calvin Tanaka 15-Aug-2012 14:56

Sample ID: D31307				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-002		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 5.323 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 6-Aug-12			
Time Collected: 1203							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
Total monoCB	68.5	9.39		IS 13C-PCB-1	40.5	25 - 150	
Total diCB	20200	18.8	B	13C-PCB-3	45.4	25 - 150	
Total triCB	118000	9.39		13C-PCB-4	78.0	25 - 150	
Total tetraCB	96000	9.39		13C-PCB-11	85.6	25 - 150	
Total pentaCB	9510	9.39		13C-PCB-9	78.6	25 - 150	
Total hexaCB	1230	9.39		13C-PCB-19	41.8	25 - 150	
Total heptaCB	263	9.39		13C-PCB-28	93.0	25 - 150	
Total octaCB	20.2	9.39		13C-PCB-32	47.9	25 - 150	
Total nonaCB	ND	9.39		13C-PCB-37	88.9	25 - 150	
Total decaCB	ND	9.39		13C-PCB-47	82.6	25 - 150	
Total PCB	246000	18.8	B	13C-PCB-52	80.3	25 - 150	
				13C-PCB-54	68.5	25 - 150	
				13C-PCB-70	96.3	25 - 150	
				13C-PCB-77	79.8	25 - 150	
				13C-PCB-80	96.5	25 - 150	
				13C-PCB-81	87.3	25 - 150	
				13C-PCB-95	94.4	25 - 150	
				13C-PCB-97	97.6	25 - 150	
				13C-PCB-101	98.7	25 - 150	
				13C-PCB-104	82.7	25 - 150	
				13C-PCB-105	69.0	25 - 150	
				13C-PCB-114	68.8	25 - 150	
				13C-PCB-118	86.4	25 - 150	
				13C-PCB-123	91.6	25 - 150	
				13C-PCB-126	63.9	25 - 150	
				13C-PCB-127	70.5	25 - 150	
				13C-PCB-138	92.4	25 - 150	

Page 1 of 2

Sample ID: D31307				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-002		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 5.323 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 6-Aug-12			
Time Collected: 1203							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
				13C-PCB-141	92.4	25 - 150	
				13C-PCB-153	93.5	25 - 150	
				13C-PCB-155	102	25 - 150	
				13C-PCB-156	76.8	25 - 150	
				13C-PCB-157	83.0	25 - 150	
				13C-PCB-159	93.0	25 - 150	
				13C-PCB-167	85.2	25 - 150	
				13C-PCB-169	80.4	25 - 150	
				13C-PCB-170	89.9	25 - 150	
				13C-PCB-180	89.3	25 - 150	
				13C-PCB-188	86.6	25 - 150	
				13C-PCB-189	83.0	25 - 150	
				13C-PCB-194	93.2	25 - 150	
				13C-PCB-202	84.6	25 - 150	
				13C-PCB-206	102	25 - 150	
				13C-PCB-208	106	25 - 150	
				13C-PCB-209	89.4	25 - 150	
				PS 13C-PCB-79	103	30 - 135	
				13C-PCB-178	115	30 - 135	
				a. Reporting limit.			
				b. Lower control limit - upper control limit.			

Sample ID: D31308				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-003		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 4.913 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 10-Aug-12			
Time Collected: 1222							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
Total monoCB	113	10.2	B	IS 13C-PCB-1	63.7	25 - 150	
Total diCB	2910	20.4		13C-PCB-3	65.0	25 - 150	
Total triCB	12300	10.2		13C-PCB-4	83.0	25 - 150	
Total tetraCB	10600	10.2		13C-PCB-11	86.4	25 - 150	
Total pentaCB	6180	10.2		13C-PCB-9	81.6	25 - 150	
Total hexaCB	2220	10.2		13C-PCB-19	72.1	25 - 150	
Total heptaCB	347	10.2		13C-PCB-28	85.3	25 - 150	
Total octaCB	41.1	10.2		13C-PCB-32	75.1	25 - 150	
Total nonaCB	ND	10.2	B	13C-PCB-37	97.0	25 - 150	
Total decaCB	ND	10.2		13C-PCB-47	81.0	25 - 150	
Total PCB	34800	20.4		13C-PCB-52	80.9	25 - 150	
				13C-PCB-54	69.5	25 - 150	
				13C-PCB-70	95.1	25 - 150	
				13C-PCB-77	92.8	25 - 150	
				13C-PCB-80	96.3	25 - 150	
				13C-PCB-81	94.7	25 - 150	
				13C-PCB-95	91.2	25 - 150	
				13C-PCB-97	97.9	25 - 150	
				13C-PCB-101	99.6	25 - 150	
				13C-PCB-104	81.2	25 - 150	
			13C-PCB-105	97.5	25 - 150		
			13C-PCB-114	103	25 - 150		
			13C-PCB-118	93.1	25 - 150		
			13C-PCB-123	96.4	25 - 150		
			13C-PCB-126	89.2	25 - 150		
			13C-PCB-127	102	25 - 150		
			13C-PCB-138	98.9	25 - 150		

Page 1 of 2

Sample ID: D31308				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-003		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 4.913 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 10-Aug-12			
Time Collected: 1222							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
				13C-PCB-141	106	25 - 150	
				13C-PCB-153	107	25 - 150	
				13C-PCB-155	101	25 - 150	
				13C-PCB-156	90.5	25 - 150	
				13C-PCB-157	88.5	25 - 150	
				13C-PCB-159	99.3	25 - 150	
				13C-PCB-167	96.8	25 - 150	
				13C-PCB-169	100	25 - 150	
				13C-PCB-170	108	25 - 150	
				13C-PCB-180	87.8	25 - 150	
				13C-PCB-188	98.9	25 - 150	
				13C-PCB-189	119	25 - 150	
				13C-PCB-194	92.8	25 - 150	
				13C-PCB-202	90.7	25 - 150	
				13C-PCB-206	99.8	25 - 150	
				13C-PCB-208	93.1	25 - 150	
				13C-PCB-209	91.6	25 - 150	
				<u>PS</u> 13C-PCB-79	103	30 - 135	
				13C-PCB-178	116	30 - 135	
				a. Reporting limit			
				b. Lower control limit - upper control limit			

Analyst: MAS	Page 2 of 2	Approved By: Calvin Tanaka	15-Aug-2012 14:56
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Sample ID: D31309				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-004		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 4.890 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 10-Aug-12			
Time Collected: 1215							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
Total monoCB	253	10.2	B	IS 13C-PCB-1	59.3	25 - 150	
Total diCB	6280	20.4		13C-PCB-3	66.4	25 - 150	
Total triCB	23500	10.2		13C-PCB-4	80.2	25 - 150	
Total tetraCB	16300	10.2		13C-PCB-11	90.1	25 - 150	
Total pentaCB	7330	10.2		13C-PCB-9	82.7	25 - 150	
Total hexaCB	1780	10.2		13C-PCB-19	74.2	25 - 150	
Total heptaCB	177	10.2		13C-PCB-28	91.4	25 - 150	
Total octaCB	ND	10.2		13C-PCB-32	78.7	25 - 150	
Total nonaCB	ND	10.2		13C-PCB-37	103	25 - 150	
Total decaCB	ND	10.2		13C-PCB-47	78.9	25 - 150	
Total PCB	55600	20.4	B	13C-PCB-52	77.0	25 - 150	
				13C-PCB-54	63.5	25 - 150	
				13C-PCB-70	93.2	25 - 150	
				13C-PCB-77	85.1	25 - 150	
				13C-PCB-80	92.2	25 - 150	
				13C-PCB-81	88.6	25 - 150	
				13C-PCB-95	91.9	25 - 150	
				13C-PCB-97	95.6	25 - 150	
				13C-PCB-101	97.9	25 - 150	
				13C-PCB-104	82.3	25 - 150	
				13C-PCB-105	86.8	25 - 150	
				13C-PCB-114	89.5	25 - 150	
				13C-PCB-118	85.9	25 - 150	
				13C-PCB-123	90.3	25 - 150	
				13C-PCB-126	75.7	25 - 150	
				13C-PCB-127	89.8	25 - 150	
				13C-PCB-138	82.1	25 - 150	

Page 1 of 2

Sample ID: D31309				EPA Method 1668A			
<u>Client Data</u>		<u>Sample Data</u>		<u>Laboratory Data</u>			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-004		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 4.890 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 10-Aug-12			
Time Collected: 1215							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
				13C-PCB-141	90.5	25 - 150	
				13C-PCB-153	92.6	25 - 150	
				13C-PCB-155	98.6	25 - 150	
				13C-PCB-156	102	25 - 150	
				13C-PCB-157	101	25 - 150	
				13C-PCB-159	92.0	25 - 150	
				13C-PCB-167	98.5	25 - 150	
				13C-PCB-169	108	25 - 150	
				13C-PCB-170	107	25 - 150	
				13C-PCB-180	98.5	25 - 150	
				13C-PCB-188	87.8	25 - 150	
				13C-PCB-189	97.2	25 - 150	
				13C-PCB-194	89.5	25 - 150	
				13C-PCB-202	93.5	25 - 150	
				13C-PCB-206	88.7	25 - 150	
				13C-PCB-208	85.6	25 - 150	
				13C-PCB-209	83.1	25 - 150	
				<u>PS</u> 13C-PCB-79	105	30 - 135	
				13C-PCB-178	88.5	30 - 135	
				a. Reporting limit.			
				b. Lower control limit - upper control limit			

Analyst: MAS	Page 2 of 2	Approved By: Calvin Tanaka	15-Aug-2012 14:56
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Sample ID: D31310				EPA Method 1668A			
Client Data			Sample Data	Laboratory Data			
Name: Weston Solutions, Inc.			Matrix: PUF	Lab Sample: 33913-005		Date Received: 27-Jul-12	
Project: 12-03-0002			Sample Size: 4.896 m3	QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 6-Aug-12			
Time Collected: 1220							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
Total monoCB	145	10.2		<u>IS</u> 13C-PCB-1	37.7	25 - 150	
Total diCB	4570	20.4	B	13C-PCB-3	42.7	25 - 150	
Total triCB	19500	10.2		13C-PCB-4	71.0	25 - 150	
Total tetraCB	13400	10.2		13C-PCB-11	80.4	25 - 150	
Total pentaCB	10500	10.2		13C-PCB-9	72.4	25 - 150	
Total hexaCB	4150	10.2		13C-PCB-19	40.9	25 - 150	
Total heptaCB	607	10.2		13C-PCB-28	78.6	25 - 150	
Total octaCB	50.7	10.2		13C-PCB-32	44.7	25 - 150	
Total nonaCB	ND	10.2		13C-PCB-37	98.1	25 - 150	
Total decaCB	ND	10.2		13C-PCB-47	78.6	25 - 150	
Total PCB	52900	20.4	B	13C-PCB-52	75.7	25 - 150	
				13C-PCB-54	61.8	25 - 150	
				13C-PCB-70	92.0	25 - 150	
				13C-PCB-77	88.5	25 - 150	
				13C-PCB-80	85.7	25 - 150	
				13C-PCB-81	88.8	25 - 150	
				13C-PCB-95	83.0	25 - 150	
				13C-PCB-97	93.4	25 - 150	
				13C-PCB-101	91.8	25 - 150	
				13C-PCB-104	71.7	25 - 150	
				13C-PCB-105	67.8	25 - 150	
				13C-PCB-114	76.5	25 - 150	
				13C-PCB-118	92.1	25 - 150	
				13C-PCB-123	97.3	25 - 150	
				13C-PCB-126	64.2	25 - 150	
				13C-PCB-127	71.0	25 - 150	
				13C-PCB-138	95.1	25 - 150	

Page 1 of 2

Sample ID: D31310				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-005		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 4.896 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 6-Aug-12			
Time Collected: 1220							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
				13C-PCB-141	95.4	25 - 150	
				13C-PCB-153	95.2	25 - 150	
				13C-PCB-155	86.9	25 - 150	
				13C-PCB-156	92.7	25 - 150	
				13C-PCB-157	94.9	25 - 150	
				13C-PCB-159	92.4	25 - 150	
				13C-PCB-167	91.6	25 - 150	
				13C-PCB-169	81.2	25 - 150	
				13C-PCB-170	95.3	25 - 150	
				13C-PCB-180	88.2	25 - 150	
				13C-PCB-188	91.3	25 - 150	
				13C-PCB-189	83.1	25 - 150	
				13C-PCB-194	92.3	25 - 150	
				13C-PCB-202	96.6	25 - 150	
				13C-PCB-206	103	25 - 150	
				13C-PCB-208	103	25 - 150	
				13C-PCB-209	91.9	25 - 150	
				PS 13C-PCB-79	102	30 - 135	
				13C-PCB-178	111	30 - 135	
				a Reporting limit.			
				b. Lower control limit - upper control limit.			

Analyst: ANP

Page 2 of 2

Approved By:

William J. Luksemburg 15-Aug-2012 15:1

Sample ID: D31311				EPA Method 1668A			
Client Data			Sample Data	Laboratory Data			
Name: Weston Solutions, Inc.			Matrix: PUF	Lab Sample: 33913-006		Date Received: 27-Jul-12	
Project: 12-03-0002			Sample Size: 5.0 m3	QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 7-Aug-12			
Time Collected: 1225							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
Total monoCB	ND	10.0		IS 13C-PCB-1	37.8	25 - 150	
Total diCB	ND	20.0		13C-PCB-3	45.8	25 - 150	
Total triCB	ND	10.0		13C-PCB-4	60.7	25 - 150	
Total tetraCB	ND	10.0		13C-PCB-11	74.6	25 - 150	
Total pentaCB	ND	10.0		13C-PCB-9	63.5	25 - 150	
Total hexaCB	ND	10.0		13C-PCB-19	53.1	25 - 150	
Total heptaCB	ND	10.0		13C-PCB-28	83.0	25 - 150	
Total octaCB	ND	10.0		13C-PCB-32	55.9	25 - 150	
Total nonaCB	ND	10.0		13C-PCB-37	82.2	25 - 150	
Total decaCB	ND	10.0		13C-PCB-47	75.6	25 - 150	
Total PCB	ND	20.0		13C-PCB-52	76.6	25 - 150	
				13C-PCB-54	68.7	25 - 150	
				13C-PCB-70	86.3	25 - 150	
				13C-PCB-77	83.1	25 - 150	
				13C-PCB-80	86.1	25 - 150	
				13C-PCB-81	85.7	25 - 150	
				13C-PCB-95	87.3	25 - 150	
				13C-PCB-97	91.2	25 - 150	
				13C-PCB-101	88.1	25 - 150	
				13C-PCB-104	79.6	25 - 150	
				13C-PCB-105	83.0	25 - 150	
				13C-PCB-114	84.6	25 - 150	
				13C-PCB-118	85.7	25 - 150	
				13C-PCB-123	90.7	25 - 150	
				13C-PCB-126	79.1	25 - 150	
				13C-PCB-127	85.4	25 - 150	
				13C-PCB-138	88.8	25 - 150	

Page 1 of 2

Sample ID: D31311				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-006		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 5.0 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 24-Jul-12				Date Analyzed DB-1: 7-Aug-12			
Time Collected: 1225							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
				13C-PCB-141	92.2	25 - 150	
				13C-PCB-153	91.9	25 - 150	
				13C-PCB-155	109	25 - 150	
				13C-PCB-156	84.6	25 - 150	
				13C-PCB-157	88.1	25 - 150	
				13C-PCB-159	86.5	25 - 150	
				13C-PCB-167	84.1	25 - 150	
				13C-PCB-169	92.4	25 - 150	
				13C-PCB-170	106	25 - 150	
				13C-PCB-180	100	25 - 150	
				13C-PCB-188	87.3	25 - 150	
				13C-PCB-189	106	25 - 150	
				13C-PCB-194	79.0	25 - 150	
				13C-PCB-202	104	25 - 150	
				13C-PCB-206	83.9	25 - 150	
				13C-PCB-208	74.9	25 - 150	
				13C-PCB-209	80.8	25 - 150	
				PS 13C-PCB-79	101	30 - 135	
				13C-PCB-178	95.0	30 - 135	
				a Reporting limit.			
				b Lower control limit - upper control limit			

Analyst: ANP	Page 2 of 2	Approved By: Calvin Tanaka	15-Aug-2012 14:56
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Sample ID: D31312				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-007		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 5.0 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 25-Jul-12				Date Analyzed DB-1: 7-Aug-12			
Time Collected: 1230							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
Total monoCB	ND	10.0		<u>IS</u> 13C-PCB-1	53.6	25 - 150	
Total diCB	25.5	20.0	B	13C-PCB-3	60.2	25 - 150	
Total triCB	ND	10.0		13C-PCB-4	81.3	25 - 150	
Total tetraCB	ND	10.0		13C-PCB-11	84.6	25 - 150	
Total pentaCB	ND	10.0		13C-PCB-9	82.0	25 - 150	
Total hexaCB	ND	10.0		13C-PCB-19	59.4	25 - 150	
Total heptaCB	ND	10.0		13C-PCB-28	80.2	25 - 150	
Total octaCB	ND	10.0		13C-PCB-32	61.1	25 - 150	
Total nonaCB	ND	10.0		13C-PCB-37	92.0	25 - 150	
Total decaCB	ND	10.0		13C-PCB-47	80.5	25 - 150	
Total PCB	25.5	20.0	B	13C-PCB-52	81.6	25 - 150	
				13C-PCB-54	74.1	25 - 150	
				13C-PCB-70	90.6	25 - 150	
				13C-PCB-77	86.6	25 - 150	
				13C-PCB-80	93.1	25 - 150	
				13C-PCB-81	88.1	25 - 150	
				13C-PCB-95	88.7	25 - 150	
				13C-PCB-97	97.9	25 - 150	
				13C-PCB-101	97.5	25 - 150	
				13C-PCB-104	81.6	25 - 150	
				13C-PCB-105	83.7	25 - 150	
				13C-PCB-114	87.6	25 - 150	
				13C-PCB-118	92.4	25 - 150	
				13C-PCB-123	99.0	25 - 150	
				13C-PCB-126	82.5	25 - 150	
				13C-PCB-127	86.9	25 - 150	
				13C-PCB-138	91.2	25 - 150	

Page 1 of 2

Sample ID: D31312				EPA Method 1668A			
Client Data		Sample Data		Laboratory Data			
Name: Weston Solutions, Inc.		Matrix: PUF		Lab Sample: 33913-007		Date Received: 27-Jul-12	
Project: 12-03-0002		Sample Size: 5.0 m3		QC Batch No.: 4585		Date Extracted: 4-Aug-12	
Date Collected: 25-Jul-12				Date Analyzed DB-1: 7-Aug-12			
Time Collected: 1230							
Analyte	Conc. (pg/m3)	RL ^a	Qualifiers	Labeled Standard	%R	LCL-UCL ^b	Qualifiers
				13C-PCB-141	94.5	25 - 150	
				13C-PCB-153	92.0	25 - 150	
				13C-PCB-155	114	25 - 150	
				13C-PCB-156	92.0	25 - 150	
				13C-PCB-157	93.9	25 - 150	
				13C-PCB-159	91.9	25 - 150	
				13C-PCB-167	91.3	25 - 150	
				13C-PCB-169	105	25 - 150	
				13C-PCB-170	114	25 - 150	
				13C-PCB-180	110	25 - 150	
				13C-PCB-188	87.7	25 - 150	
				13C-PCB-189	118	25 - 150	
				13C-PCB-194	94.8	25 - 150	
				13C-PCB-202	102	25 - 150	
				13C-PCB-206	81.9	25 - 150	
				13C-PCB-208	90.9	25 - 150	
				13C-PCB-209	74.8	25 - 150	
				<u>PS</u> 13C-PCB-79	76.2	30 - 135	
				13C-PCB-178	64.2	30 - 135	
				a. Reporting limit.			
				b. Lower control limit - upper control limit			

Analyst: ANP

Page 2 of 2

Approved By:

Calvin Tanaka 15-Aug-2012 14:56

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The amount detected is above the High Calibration Limit.
P	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
H	Recovery was outside laboratory acceptance limits.
I	Chemical Interference
J	The amount detected is below the Low Calibration Limit.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that correspond to low calibration point
ND	Not Detected
TEQ	Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 1
OFFICE OF ENVIRONMENTAL MEASUREMENT & EVALUATION
NORTH CHELMSFORD, MASSACHUSETTS 01863-2431

MEMORANDUM

DATE: August 21, 2012

SUBJECT: Park Street, Bennington, VT - PCB Field Analytical Results

FROM: Scott Clifford, Chemist *SC 8/22/12*

TO: Cathy Young, OSC

THRU: Dan Boudreau, Chemistry Team Leader *DB 8/22/12*

PROJECT NUMBER: 12080032

DATE OF ANALYSIS: 08/07/12 - 08/09/12

ANALYTICAL PROCEDURE:

Soils were analyzed for PCBs using EPA Region I SOP for PCBs Field Testing for Soils and Sediment samples (EIA-FLDPCB2.SOP). Approximately 1 gram of sample was weighed into a 4 ml vial. To this was added 200 μ L water, 800 μ L methanol and 1000 μ L hexane. The sample mix was vortexed for approximately one minute and then centrifuged. A portion of the hexane extract was analyzed on a Shimadzu gas chromatograph equipped with an electron-capture detector and 30 meter, 0.53mm ID MXT-5 or equivalent column. Concentrations of PCBs in soil were calculated using the external standard technique.

TARGET COMPOUNDS:

PCB A1242

PROJECT NOTE: PCB reported as A1242 looked weathered, and could be PCB A1016 or PCB A1232

Discussion:

Analysis on the Shimadzu Model GC 14A is used for tentative identification and semi-quantitation of PCBs in soil, oil and sediment samples. This field technique is not meant to substitute for the CLP PCBs in soil protocol. This analysis technique can, however save costly analysis time when full protocol is not required.

File: K:\CHEMISTRY\REPORTS\FIELD\12080032fdpcb.xls

Results:	
Results are in columns below. ND() is not detected with the reporting level in parenthesis. Soil PCB results are based on sample wet weight.	
Park Street, Bennington, VT - PCB Field Analytical Results	
08/07/12 -08/09/12	
	PCB Aroclor Results
	Wet Weight
	ppm
	Aroclor
Sample #	1242
SD-506	ND(0.2)
SD-501	ND(0.2)
SD-507	ND(0.2)
SD-507 Lab Dup	ND(0.2)
SD-504	ND(0.2)
SD-503	ND(0.2)
SD-502	ND(0.2)
SD-511	ND(0.2)
SD-514	ND(0.2)
E-300	ND(0.2)
E-200	ND(0.2)
SD-505	ND(0.2)
SD-512	ND(0.2)
B-300	ND(0.2)
B-200	ND(0.2)
SD-513	0.3
B-400	ND(0.2)
E-100	ND(0.3)
SD-516	ND(0.5)
SD-515	ND(0.2)
E-000	ND(0.2)
SD-522	ND(0.2)
SD-521	ND(0.2)
SD-526	ND(0.2)
SD-526 Lab Dup	ND(0.2)
I-300	ND(0.2)
SD-524	ND(0.2)
SD-525	ND(0.2)
H-200	ND(0.2)
H-300	ND(0.2)
I-100	ND(0.2)
H-000	ND(0.2)
I-200	ND(0.2)
H-100	ND(0.2)
K-300	ND(0.2)
I-000	ND(0.2)
J-100	ND(0.2)
J-000	ND(0.2)
J-300	ND(0.2)
J-200	ND(0.2)
SD-523	1.0
L-300	ND(0.2)
L-400	ND(0.2)

Results are in columns below. ND() is not detected with the reporting level in parenthesis. Soil PCB results are based on sample wet weight.

Park Street, Bennington, VT - PCB Field Analytical Results

08/07/12 -08/09/12

Sample #	PCB Aroclor Results
	Wet Weight
	ppm
	Aroclor 1242
K-100	ND(0.2)
K-200	ND(0.2)
K-200 Lab Dup	ND(0.2)
K-400	0.3
F-250	0.3
SD-548	ND(0.2)
SD-547	ND(0.2)
SD-546	ND(0.2)
SD-545	ND(0.2)
SD-549	ND(0.2)
SD-549 Lab Dup	ND(0.2)
P410 SD- 551	ND(0.2)
P410 SD- 552	ND(0.2)
P410 SS-01	ND(0.5)
P410 SS-02	ND(0.5)
P410 SS-03	ND(0.5)
P414-SB-05	ND(0.2)
P414-SB-06	ND(0.2)
P414-SB-10	ND(0.5)
P414-SB-09	ND(15)
P414-SB-11	ND(0.2)
P414-SB-12	ND(0.2)
P414-SB-12 Lab Dup	ND(0.2)
P414-SB-07	ND(0.5)
P414-SB-03	ND(0.2)
P414-SB-01	ND(0.2)
P414-SB-02	ND(0.3)
P414-SB-08	ND(0.2)
P414-SB-04	ND(0.2)
P538 SB-09	ND(0.2)
P538 SB-06	ND(0.2)
P538 SB-05	ND(0.2)
P538 SB-07	ND(0.2)
P538 SB-08	ND(0.2)
P538 SB-04	ND(0.2)
P538 SB-10	ND(0.2)
P594 SB-03	ND(0.2)
P594 SB-02	ND(0.2)
P594 SB-01	ND(0.2)
P594 SB-07	ND(0.2)
P594 SB-04	ND(0.2)
P594 SB-08	ND(0.2)
P538 SB-14	ND(0.2)
P538 SB-15	ND(0.2)
P538 SB-13	ND(0.2)

Results are in columns below. ND() is not detected with the reporting level in parenthesis. Soil PCB results are based on sample wet weight.	
Park Street, Bennington, VT - PCB Field Analytical Results	
08/07/12 -08/09/12	
	PCB Aroclor Results
	Wet Weight
	ppm
Sample #	Aroclor
	1242
P594 SB-05	ND(0.2)
P538 SB-02	ND(0.2)
P538 SB-01	ND(0.5)
P594 SB-06	ND(0.2)
P538 SB-12	ND(0.2)
P538 SB-11	ND(0.2)
P538 SB-03	ND(0.2)
P594 SB-11	ND(0.2)
P594 SB-14	ND(0.2)
P594 SB-16	ND(0.2)
P594 SB-09	ND(0.2)
P594 SB-15	ND(0.2)
P594 SB-13	ND(0.2)
P594 SB-10	ND(0.2)
P594 SB-12	ND(0.5)
P594 SB-17	ND(0.2)
P594 SB-22	ND(0.2)
P594 SB-23	ND(0.3)
P594 SB-20	ND(0.3)
P594 SB-21	ND(0.2)
P594 SB-18	ND(0.2)
P594 SB-19	ND(0.2)
P594 SB-29	ND(0.3)
P594 SB-27	ND(0.2)
P594 SB-25	ND(0.5)
P594 SB-24	ND(0.2)
P594 SB-26	ND(0.2)
P594 SB-28	ND(0.2)
P594 SB-28 Lab Dup	ND(0.2)
P594 SB-30	ND(0.2)



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Page 1 of 7

Laboratory Report

August 29, 2012

Cathy Young - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080031
Project: Park Street - Bennington, VT
Analysis: PCBs in Water Low Level
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-PESWALL6.

The SOP is based on "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, Method 608 - Organochlorine Pesticides and PCBs".

The analysis was carried out using high resolution capillary column chromatography. The 30 meter dual capillary system consists of J&W DB-5 and J&W DB-1701 columns both with a 0.25 mm ID.

Date Samples Received by the Laboratory: 08/10/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340.

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.08.29 14:40:14 -04'00'

12080031\$PCBW

Qualifiers: RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C = The identification has been confirmed by GC/MS.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

12080031\$PCBW

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY0-0210
Date of Collection: 8/9/2012
Date of Extraction: 8/10/12
Date of Analysis: 8/14/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1000 mL

Lab Sample ID: AB31783
Matrix: Water
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 5.7
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	69	40 - 106
Decachlorobiphenyl	76	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

Blank for PCBs Water

Client Sample ID: N/A
Date of Collection: N/A
Date of Extraction: 8/10/12
Date of Analysis: 8/14/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1000 mL

Lab Sample ID: N/A
Matrix: Water
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 5.8
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	60	40 - 106
Decachlorobiphenyl	97	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

MATRIX SPIKE (MS)

Park Street - Bennington, VT

Sample ID: AB31783

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
Aroclor-1016	3	ND	3.32	111	70 - 130
Aroclor-1260	3	ND	3.37	112	70 - 130
Comments:					

Samplers Signatures



CHAIN OF CUSTODY RECORD

Project Code: Park Street
Contact Name: Cathy Young
Contact Phone: 617-918-1217

No: 1-080912-105002-0004

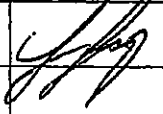
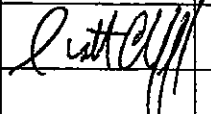
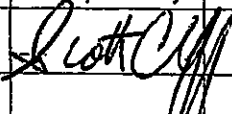
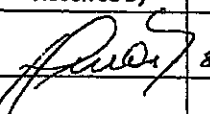
Date Shipped: 8/9/2012

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	MS/MSD
	R01-120403CY-0107	SD-513	C200	PCBs	Sediment	8/7/2012	10:30	1	8 oz Amber	
	R01-120403CY-0110	SD-516	D200	PCBs	Sediment	8/7/2012	10:42	1	8 oz Amber	
	R01-120403CY-0113	SD-519	E200	PCBs	Sediment	8/7/2012	10:00	1	8 oz Amber	
	R01-120403CY-0117	SD-523	F200	PCBs	Sediment	8/7/2012	12:30	1	8 oz Amber	
	R01-120403CY-0136	SD-542	K400	PCBs	Sediment	8/7/2012	14:50	1	8 oz Amber	
	R01-120403CY-0139	SD-545	M300	PCBs	Sediment	8/8/2012	08:00	1	8 oz Amber	
	R01-120403CY-0144	SD-550	F250	PCBs	Sediment	8/8/2012	08:15	2	8 oz Amber	Y
	R01-120403CY-0147	P-410-SS-01	Near tank	PCBs	Soil	8/8/2012	10:21	1	4 oz Amber	
	R01-120403CY-0148	P-410-SS-02	Wall near tank	PCBs	Soil	8/8/2012	10:26	1	4 oz Amber	
	R01-120403CY-0149	P-410-SS-03	Wall near well	PCBs	Soil	8/8/2012	10:30	1	4 oz Amber	
	R01-120403CY-0151	P-414-SB-02		PCBs	Soil	8/8/2012	12:00	1	4 oz Amber	
	R01-120403CY-0156	P-414-SB-07		PCBs	Soil	8/8/2012	12:00	1	4 oz Amber	
	R01-120403CY-0158	P-414-SB-09		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0159	P-414-SB-10		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0162	P-538-SB-01	A100	PCBs	Soil	8/8/2012	14:40	1	4 oz Amber	
	R01-120403CY-0175	P-538-SB-14	D000	PCBs	Soil	8/8/2012	14:05	2	4 oz Amber	Y
	R01-120403CY-0185	SD-600	E200	PCBs	Sediment	8/7/2012	10:00	1	8 oz Amber	
	R01-120403CY-0186	P-414-SB-100		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0190	P-594-SB-12	C150	PCBs	Soil	8/9/2012	09:10	1	4 oz Amber	

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/9/12		8-9-12	12:50 hrs			8-9-12		8/9/12	11:12

CHAIN OF CUSTODY RECORD

Project Code: Park Street
Contact Name: Cathy Young
Contact Phone: 617-918-1217

No: 1-080912-105002-0004

DateShipped: 8/9/2012

[illegible]

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

[illegible]



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Page 1 of 24

Laboratory Report

October 25, 2012

Dan Burgo - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12090046
Project: Park Street - Bennington, VT
Analysis: PCBs in Water Low Level
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-PESWALL6.

The SOP is based on "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, Method 608 - Organochlorine Pesticides and PCBS".

The analysis was carried out using high resolution capillary column chromatography. The 30 meter dual capillary system consists of J&W DB-5 and J&W DB-1701 columns both with a 0.25 mm ID.

Date Samples Received by the Laboratory: 09/28/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340.

Sincerely,

Digitally signed by Dan Boudreau

DN: cn=Dan Boudreau, o=EPA,

ou=EIA,

email=boudreau.dan@epa.gov,

c=US

Date: 2012.10.25 09:34:21 -04'00'

HRS Reference #88

Page 84 of 167

12090046\$PCBW

Page 84 of 165

Qualifiers: RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C = The identification has been confirmed by GC/MS.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

12090046\$PCBW

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0213
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/5/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1060 mL

Lab Sample ID: AB33527
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.0
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.45	
11104-28-2	Aroclor-1221	ND	0.45	
11141-16-5	Aroclor-1232	ND	0.45	
53469-21-9	Aroclor-1242	ND	0.45	
12672-29-6	Aroclor-1248	ND	0.45	
11097-69-1	Aroclor-1254	ND	0.45	
11096-82-5	Aroclor-1260	ND	0.45	
11100-14-4	Aroclor-1262	ND	0.45	
37324-23-5	Aroclor-1268	ND	0.45	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	62	40 - 106
Decachlorobiphenyl	91	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0214
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/5/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 890 mL

Lab Sample ID: AB33528
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.0
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.55	
11104-28-2	Aroclor-1221	ND	0.55	
11141-16-5	Aroclor-1232	ND	0.55	
53469-21-9	Aroclor-1242	ND	0.55	
12672-29-6	Aroclor-1248	ND	0.55	
11097-69-1	Aroclor-1254	ND	0.55	
11096-82-5	Aroclor-1260	ND	0.55	
11100-14-4	Aroclor-1262	ND	0.55	
37324-23-5	Aroclor-1268	ND	0.55	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	60	40 - 106
Decachlorobiphenyl	80	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0215
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/5/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1020 mL

Lab Sample ID: AB33529
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.0
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	53	40 - 106
Decachlorobiphenyl	57	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0216
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/5/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1050 mL

Lab Sample ID: AB33530
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.0
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	62	40 - 106
Decachlorobiphenyl	94	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0217
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/5/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1040 mL

Lab Sample ID: AB33531
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.0
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds

2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Recoveries (%)

78
108

QC Ranges

40 - 106
27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0218
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/5/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1010 mL

Lab Sample ID: AB33532
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.6
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	75	40 - 106
Decachlorobiphenyl	101	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0219
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/5/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1000 mL

Lab Sample ID: AB33533
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 8.1
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	54	40 - 106
Decachlorobiphenyl	86	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0220
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1020 mL

Lab Sample ID: AB33534
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.8
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	67	40 - 106
Decachlorobiphenyl	110	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0221
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1010 mL

Lab Sample ID: AB33535
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 8.2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	57	40 - 106
Decachlorobiphenyl	70	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0222
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1000 mL

Lab Sample ID: AB33536
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 7.4
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	50	40 - 106
Decachlorobiphenyl	92	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0223
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1040 mL

Lab Sample ID: AB33537
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.8
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	58	40 - 106
Decachlorobiphenyl	93	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0224
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1000 mL

Lab Sample ID: AB33538
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 8.0
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	54	40 - 106
Decachlorobiphenyl	89	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0225
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1020 mL

Lab Sample ID: AB33539
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.7
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	58	40 - 106
Decachlorobiphenyl	90	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0226
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1010 mL

Lab Sample ID: AB33540
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 6.5
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	83	40 - 106
Decachlorobiphenyl	105	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0227
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1000 mL

Lab Sample ID: AB33541
Matrix: Water PE
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 2
pH: 5.9
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	1.0	
11104-28-2	Aroclor-1221	ND	1.0	
11141-16-5	Aroclor-1232	ND	1.0	
53469-21-9	Aroclor-1242	ND	1.0	
12672-29-6	Aroclor-1248	11	1.0	
11097-69-1	Aroclor-1254	ND	1.0	
11096-82-5	Aroclor-1260	12	1.0	
11100-14-4	Aroclor-1262	ND	1.0	
37324-23-5	Aroclor-1268	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	71	40 - 106
Decachlorobiphenyl	87	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0228
Date of Collection: 9/26/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1000 mL

Lab Sample ID: AB33542
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 8.7
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	52	40 - 106
Decachlorobiphenyl	91	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0229
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 900 mL

Lab Sample ID: AB33543
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 8.2
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.55	
11104-28-2	Aroclor-1221	ND	0.55	
11141-16-5	Aroclor-1232	ND	0.55	
53469-21-9	Aroclor-1242	ND	0.55	
12672-29-6	Aroclor-1248	ND	0.55	
11097-69-1	Aroclor-1254	ND	0.55	
11096-82-5	Aroclor-1260	ND	0.55	
11100-14-4	Aroclor-1262	ND	0.55	
37324-23-5	Aroclor-1268	ND	0.55	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	69	40 - 106
Decachlorobiphenyl	105	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0230
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 500 mL

Lab Sample ID: AB33544
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 8.2
GPC Factor: N/A

<u>CAS Number</u>	<u>Compound</u>	<u>Concentration ug/L</u>	<u>RL ug/L</u>	<u>Qualifier</u>
12674-11-2	Aroclor-1016	ND	1.0	
11104-28-2	Aroclor-1221	ND	1.0	
11141-16-5	Aroclor-1232	ND	1.0	
53469-21-9	Aroclor-1242	ND	1.0	
12672-29-6	Aroclor-1248	ND	1.0	
11097-69-1	Aroclor-1254	ND	1.0	
11096-82-5	Aroclor-1260	ND	1.0	
11100-14-4	Aroclor-1262	ND	1.0	
37324-23-5	Aroclor-1268	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	51	40 - 106
Decachlorobiphenyl	77	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs in Water Low Level

Client Sample ID: R01-120403CY-0231
Date of Collection: 9/27/2012
Date of Extraction: 10/2/12
Date of Analysis: 10/6/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1030 mL

Lab Sample ID: AB33545
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 8.0
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	0	40 - 106
Decachlorobiphenyl	0	27 - 128

Comments: Evidently surrogates were not spiked into this sample.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

Blank for PCBs Water

Client Sample ID: N/A
Date of Collection: N/A
Date of Extraction: 10/2/12
Date of Analysis: 10/5/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A
Volume Extracted: 1000 mL

Lab Sample ID: N/A
Matrix: GW
Final Volume: 5 mL
Percent Solids: N/A
Extract Dilution: 1
pH: 5.9
GPC Factor: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	61	40 - 106
Decachlorobiphenyl	99	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

QA/QC RESULTS

LABORATORY FORTIFIED BLANK (LFB) / LABORATORY FORTIFIED BLANK DUPLICATE (LFB Dup)

Sample ID: AB33545

COMPOUND	SPIKE ADDED ug/L	LFB CONCENTRATION ug/L	LFB RECOVERY %	QC LIMITS (% REC)
Aroclor-1016	3.0	2.35	78	70 - 130
Aroclor-1254	ND			
Aroclor-1260	3.0	3.10	103	70 - 130

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
Aroclor-1016	2.26	75.3	3.9	50
Aroclor-1260	3.00	100	3.3	50

Samples in Batch: AB33527, AB33528, AB33529,*AB33530, AB33531, AB33532, AB33533,
AB33534, AB33535, AB33536, AB33537, AB33538, AB33539, AB33540,
AB33541, AB33542, AB33543, AB33544, AB33545

Comments:

FW: 12090046

Weston Solutions, Inc.

Region 1 START

Samplers Signatures:

Andrew Domibos *Eric D. Ackerman*
[Signature]
[Signature]

CHAIN OF CUSTODY RECORD

Park Street

Contact Name: Dan Burgo

Contact Phone: 617-918-1052

No: 1-092512-143112-0006

Lab: NERL

Date Delivered: 9/28/2012

Lab #	Sample #	Location	Collected	Sample Time	Analyses	Matrix	Numb Cont	Container	MS/MSD
	R01-120403CY-0213	GW-100	9/27/2012	13:15	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0214	GW-101	9/27/2012	12:50	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0215	GW-102	9/26/2012	15:00	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0216	GW-103	9/26/2012	12:25	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0217	GW-104S	9/26/2012	15:45	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0218	GW-104D	9/26/2012	15:00	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0219	GW-105	9/26/2012	15:20	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0220	GW-106S	9/26/2012	17:45	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0221	GW-106D	9/27/2012	11:30	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0222	GW-107	9/26/2012	18:05	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0223	GW-108S	9/27/2012	13:00	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0224	GW-108D	9/27/2012	11:10	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0225	GW-109	9/26/2012	15:00	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0226	RB-01	9/27/2012	15:00	PCBs	Water	1	1 liter amber	
	R01-120403CY-0227	PE-AA0269	9/26/2012	07:00	PCBs	PE Water	1	ampule	
	R01-120403CY-0228	GW-102-F	9/26/2012	15:10	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0229	GW-101-F	9/27/2012	12:55	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0230	GW-106D-F	9/27/2012	11:35	PCBs	Ground Water	1	1 liter amber	
	R01-120403CY-0231	GW-108D-F	9/27/2012	11:15	PCBs	Ground Water	1	1 liter amber	

Special Instructions:	SAMPLES TRANSFERRED FROM	
	CHAIN OF CUSTODY #	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	<i>Erickson</i>	9/28/12	<i>[Signature]</i>	9/28/12	15:40						



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Page 1 of 18

Laboratory Report

September 18, 2012

Cathy Young - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080030
Project: Park Street - Bennington, VT
Analysis: PCBs Medium Level in Soils and Sediments
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL3.SOP.

The SOP is based on EPA SW-846 Method 8082

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

Date Samples Received by the Laboratory: 08/10/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau

DN: cn=Dan Boudreau, o=EPA,

ou=EIA,

email=boudreau.dan@epa.gov, c=US

Date: 2012.09.18 10:26:14 -04'00'

12080030\$PCBMS

Qualifiers: RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C = The identification has been confirmed by GC/MS.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

12080030\$PCBMS

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0107
Date of Collection: 8/7/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 3.87 grams
Wet Weight Extracted: 6.08 grams
Volume Extracted: N/A

Lab Sample ID: AB31761
Matrix: Sediment
Final Volume: 5 mL
Percent Solids: 64%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.13	
11104-28-2	Aroclor-1221	ND	0.13	
11141-16-5	Aroclor-1232	ND	0.13	
53469-21-9	Aroclor-1242	0.25	0.13	P
12672-29-6	Aroclor-1248	ND	0.13	
11097-69-1	Aroclor-1254	ND	0.13	
11096-82-5	Aroclor-1260	ND	0.13	
11100-14-4	Aroclor-1262	ND	0.13	
37324-23-5	Aroclor-1268	ND	0.13	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	73	36 - 131
Decachlorobiphenyl	91	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0110
Date of Collection: 8/7/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 4.66 grams
Wet Weight Extracted: 6.13 grams
Volume Extracted: N/A

Lab Sample ID: AB31762
Matrix: Sediment
Final Volume: 5 mL
Percent Solids: 76%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	68	36 - 131
Decachlorobiphenyl	81	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0113
Date of Collection: 8/7/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 4.84 grams
Wet Weight Extracted: 6.27 grams
Volume Extracted: N/A

Lab Sample ID: AB31763
Matrix: Sediment
Final Volume: 5 mL
Percent Solids: 77%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	32	36 - 131
Decachlorobiphenyl	91	30 - 165

Comments: The tetrachloroxylene surrogate recovery was below the QC limit. Surrogate recovery for the decachlorobiphenyl was within specification.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0117
Date of Collection: 8/7/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 0.78 grams
Wet Weight Extracted: 5.65 grams
Volume Extracted: N/A

Lab Sample ID: AB31764
Matrix: Sediment
Final Volume: 5 mL
Percent Solids: 14%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.64	
11104-28-2	Aroclor-1221	ND	0.64	
11141-16-5	Aroclor-1232	ND	0.64	
53469-21-9	Aroclor-1242	3.2	0.64	P
12672-29-6	Aroclor-1248	ND	0.64	
11097-69-1	Aroclor-1254	ND	0.64	
11096-82-5	Aroclor-1260	ND	0.64	
11100-14-4	Aroclor-1262	ND	0.64	
37324-23-5	Aroclor-1268	ND	0.64	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	66	36 - 131
Decachlorobiphenyl	85	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0136
Date of Collection: 8/7/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 4.59 grams
Wet Weight Extracted: 6.28 grams
Volume Extracted: N/A

Lab Sample ID: AB31765
Matrix: Sediment
Final Volume: 5 mL
Percent Solids: 73%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	0.25	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	79	36 - 131
Decachlorobiphenyl	98	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0139
Date of Collection: 8/8/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 3.88 grams
Wet Weight Extracted: 5.94 grams
Volume Extracted: N/A

Lab Sample ID: AB31766
Matrix: Sediment
Final Volume: 5 mL
Percent Solids: 65%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.13	
11104-28-2	Aroclor-1221	ND	0.13	
11141-16-5	Aroclor-1232	ND	0.13	
53469-21-9	Aroclor-1242	ND	0.13	
12672-29-6	Aroclor-1248	ND	0.13	
11097-69-1	Aroclor-1254	ND	0.13	
11096-82-5	Aroclor-1260	ND	0.13	
11100-14-4	Aroclor-1262	ND	0.13	
37324-23-5	Aroclor-1268	ND	0.13	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	86	36 - 131
Decachlorobiphenyl	97	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0144
Date of Collection: 8/8/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 4.15 grams
Wet Weight Extracted: 5.52 grams
Volume Extracted: N/A

Lab Sample ID: AB31767
Matrix: Sediment
Final Volume: 5 mL
Percent Solids: 75%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	39	36 - 131
Decachlorobiphenyl	64	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0147
Date of Collection: 8/8/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 3.79 grams
Wet Weight Extracted: 6.15 grams
Volume Extracted: N/A

Lab Sample ID: AB31768
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 62%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.13	
11104-28-2	Aroclor-1221	ND	0.13	
11141-16-5	Aroclor-1232	ND	0.13	
53469-21-9	Aroclor-1242	ND	0.13	
12672-29-6	Aroclor-1248	ND	0.13	
11097-69-1	Aroclor-1254	ND	0.13	
11096-82-5	Aroclor-1260	ND	0.13	
11100-14-4	Aroclor-1262	ND	0.13	
37324-23-5	Aroclor-1268	ND	0.13	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	79	36 - 131
Decachlorobiphenyl	106	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0148
Date of Collection: 8/8/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 3.81 grams
Wet Weight Extracted: 6.45 grams
Volume Extracted: N/A

Lab Sample ID: AB31769
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 59%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.13	
11104-28-2	Aroclor-1221	ND	0.13	
11141-16-5	Aroclor-1232	ND	0.13	
53469-21-9	Aroclor-1242	0.39	0.13	
12672-29-6	Aroclor-1248	ND	0.13	
11097-69-1	Aroclor-1254	ND	0.13	
11096-82-5	Aroclor-1260	0.22	0.13	
11100-14-4	Aroclor-1262	ND	0.13	
37324-23-5	Aroclor-1268	ND	0.13	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	77	36 - 131
Decachlorobiphenyl	108	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0149
Date of Collection: 8/8/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 4.66 grams
Wet Weight Extracted: 5.92 grams
Volume Extracted: N/A

Lab Sample ID: AB31770
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 79%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	92	36 - 131
Decachlorobiphenyl	121	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY-0151
Date of Collection: 8/8/2012
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 5.31 grams
Wet Weight Extracted: 6.00 grams
Volume Extracted: N/A

Lab Sample ID: AB31771
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 89%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	91	36 - 131
Decachlorobiphenyl	99	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

Laboratory Blank

Client Sample ID: N/A
Date of Collection: N/A
Date of Extraction: 8/15/12
Date of Analysis: 9/4/12
Dry Weight Extracted: 5.15 grams
Wet Weight Extracted: 5.15 grams
Volume Extracted: N/A

Lab Sample ID: N/A
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 100%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	80	36 - 131
Decachlorobiphenyl	97	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Park Street - Bennington, VT

Sample ID: AB31771

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
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Aroclor-1254	0.6	ND	0.59	95	70 - 130
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Comments:

Sample ID: AB31771

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
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Aroclor-1254	0.6	0.63	100	5	50
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Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Park Street - Bennington, VT

Sample ID: AB31771

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND	ND	50
Aroclor-1221	ND	ND	ND	50
Aroclor-1232	ND	ND	ND	50
Aroclor-1242	ND	ND	ND	50
Aroclor-1248	ND	ND	ND	50
Aroclor-1254	ND	ND	ND	50
Aroclor-1260	ND	ND	ND	50
Aroclor-1262	ND	ND	ND	50
Aroclor-1268	ND	ND	ND	50

Samplers Signatures



CHAIN OF CUSTODY RECORD

Project Code: Park Street
Contact Name: Cathy Young
Contact Phone: 617-918-1217

No: 1-080912-105002-0004

Date Shipped: 8/9/2012

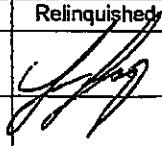
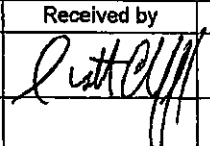
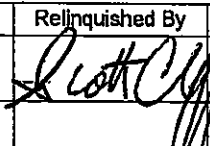
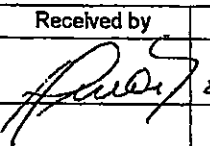
PN: 12080030

PN: 12080031

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	MS/MSD
	R01-120403CY-0107	SD-513	C200	PCBs	Sediment	8/7/2012	10:30	1	8 oz Amber	
	R01-120403CY-0110	SD-516	D200	PCBs	Sediment	8/7/2012	10:42	1	8 oz Amber	
	R01-120403CY-0113	SD-519	E200	PCBs	Sediment	8/7/2012	10:00	1	8 oz Amber	
	R01-120403CY-0117	SD-523	F200	PCBs	Sediment	8/7/2012	12:30	1	8 oz Amber	
	R01-120403CY-0136	SD-542	K400	PCBs	Sediment	8/7/2012	14:50	1	8 oz Amber	
	R01-120403CY-0139	SD-545	M300	PCBs	Sediment	8/8/2012	08:00	1	8 oz Amber	
	R01-120403CY-0144	SD-550	F250	PCBs	Sediment	8/8/2012	08:15	2	8 oz Amber	Y
	R01-120403CY-0147	P-410-SS-01	Near tank	PCBs	Soil	8/8/2012	10:21	1	4 oz Amber	
	R01-120403CY-0148	P-410-SS-02	Wall near tank	PCBs	Soil	8/8/2012	10:26	1	4 oz Amber	
	R01-120403CY-0149	P-410-SS-03	Wall near well	PCBs	Soil	8/8/2012	10:30	1	4 oz Amber	
	R01-120403CY-0151	P-414-SB-02		PCBs	Soil	8/8/2012	12:00	1	4 oz Amber	
	R01-120403CY-0156	P-414-SB-07		PCBs	Soil	8/8/2012	12:00	1	4 oz Amber	
	R01-120403CY-0158	P-414-SB-09		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0159	P-414-SB-10		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0162	P-538-SB-01	A100	PCBs	Soil	8/8/2012	14:40	1	4 oz Amber	
	R01-120403CY-0175	P-538-SB-14	D000	PCBs	Soil	8/8/2012	14:05	2	4 oz Amber	Y
	R01-120403CY-0185	SD-600	E200	PCBs	Sediment	8/7/2012	10:00	1	8 oz Amber	
	R01-120403CY-0186	P-414-SB-100		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0190	P-594-SB-12	C150	PCBs	Soil	8/9/2012	09:10	1	4 oz Amber	

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/9/12		8-9-12	12:50 PM			8-10-12		8/9/12	11:12

PN: 12080031

Project Code: Park Street
Contact Name: Cathy Young
Contact Phone: 617-918-1217

No: 1-080912-105002-0004

DateShipped: 8/9/2012

[illegible]

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

[illegible]



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Page 1 of 18

Laboratory Report

September 18, 2012

Cathy Young - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080031
Project: Park Street - Bennington, VT
Analysis: PCBs Medium Level in Soils and Sediments
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL3.SOP.

The SOP is based on EPA SW-846 Method 8082

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

Date Samples Received by the Laboratory: 08/10/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau

DN: cn=Dan Boudreau, o=EPA,

ou=EIA,

email=boudreau.dan@epa.gov, c=US

Date: 2012.09.18 11:13:16 -04'00'

12080031\$PCBMS

Qualifiers: RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C = The identification has been confirmed by GC/MS.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

12080031\$PCBMS

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0156
Date of Collection: 8/8/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 5.38 grams
Wet Weight Extracted: 6.34 grams
Volume Extracted: N/A

Lab Sample ID: AB31772
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 85%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	71	36 - 131
Decachlorobiphenyl	100	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0158

Date of Collection: 8/8/2012

Date of Extraction: 8/17/12

Date of Analysis: 9/5/12

Dry Weight Extracted: 5.41 grams

Wet Weight Extracted: 6.00 grams

Volume Extracted: N/A

Lab Sample ID: AB31773

Matrix: Soil

Final Volume: 5 mL

Percent Solids: 90%

Extract Dilution: 1

pH: N/A

GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	60	36 - 131
Decachlorobiphenyl	94	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0159
Date of Collection: 8/8/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 5.20 grams
Wet Weight Extracted: 6.08 grams
Volume Extracted: N/A

Lab Sample ID: AB31774
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 86%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	57	36 - 131
Decachlorobiphenyl	86	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0162
Date of Collection: 8/8/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 4.92 grams
Wet Weight Extracted: 5.94 grams
Volume Extracted: N/A

Lab Sample ID: AB31775
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 83%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	66	36 - 131
Decachlorobiphenyl	95	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0175
Date of Collection: 8/8/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 4.38 grams
Wet Weight Extracted: 5.72 grams
Volume Extracted: N/A

Lab Sample ID: AB31776
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 77%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	64	36 - 131
Decachlorobiphenyl	103	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0185
Date of Collection: 8/7/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 4.65 grams
Wet Weight Extracted: 5.99 grams
Volume Extracted: N/A

Lab Sample ID: AB31777
Matrix: Sediment
Final Volume: 5 mL
Percent Solids: 78%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	55	36 - 131
Decachlorobiphenyl	93	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0186
Date of Collection: 8/8/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 5.04 grams
Wet Weight Extracted: 5.90 grams
Volume Extracted: N/A

Lab Sample ID: AB31778
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 85%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	52	36 - 131
Decachlorobiphenyl	85	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0190
Date of Collection: 8/9/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 5.43 grams
Wet Weight Extracted: 6.47 grams
Volume Extracted: N/A

Lab Sample ID: AB31779
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 84%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	87	36 - 131
Decachlorobiphenyl	97	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0195
Date of Collection: 8/9/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 4.24 grams
Wet Weight Extracted: 5.82 grams
Volume Extracted: N/A

Lab Sample ID: AB31780
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 73%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	67	36 - 131
Decachlorobiphenyl	100	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0198
Date of Collection: 8/9/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 5.33 grams
Wet Weight Extracted: 6.13 grams
Volume Extracted: N/A

Lab Sample ID: AB31781
Matrix: Soil
Final Volume: 5 mL
Percent Solids: 87%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	76	36 - 131
Decachlorobiphenyl	99	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

PCBs Medium Level in Soils and Sediments

Client Sample ID: R01-120403CY0-0209
Date of Collection: 8/9/2012
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 5.12 grams
Wet Weight Extracted: 5.12 grams
Volume Extracted: N/A

Lab Sample ID: AB31782
Matrix: PE Soil
Final Volume: 5 mL
Percent Solids: 100%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	0.26	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	76	36 - 131
Decachlorobiphenyl	102	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Park Street - Bennington, VT

Laboratory Blank

Client Sample ID: N/A
Date of Collection: N/A
Date of Extraction: 8/17/12
Date of Analysis: 9/5/12
Dry Weight Extracted: 5.21 grams
Wet Weight Extracted: 5.22 grams
Volume Extracted: N/A

Lab Sample ID: N/A
Matrix: PE Soil
Final Volume: 5 mL
Percent Solids: 100%
Extract Dilution: 1
pH: N/A
GPC Factor: N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	56	36 - 131
Decachlorobiphenyl	102	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Park Street - Bennington, VT

Sample ID: AB31781

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
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Aroclor-1254

0.7

ND

0.69

105

70 - 130

Comments:

Sample ID: AB31781

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
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Aroclor-1254

0.7

0.67

103

1

50

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Park Street - Bennington, VT

Sample ID: AB31781

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND	ND	50
Aroclor-1221	ND	ND	ND	50
Aroclor-1232	ND	ND	ND	50
Aroclor-1242	ND	ND	ND	50
Aroclor-1248	ND	ND	ND	50
Aroclor-1254	ND	ND	ND	50
Aroclor-1260	ND	ND	ND	50
Aroclor-1262	ND	ND	ND	50
Aroclor-1268	ND	ND	ND	50

Samplers Signatures



CHAIN OF CUSTODY RECORD

Project Code: Park Street
Contact Name: Cathy Young
Contact Phone: 617-918-1217

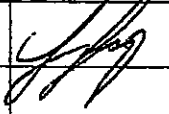
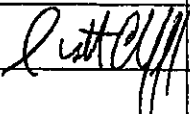
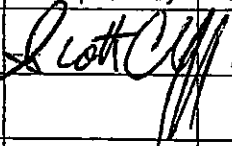
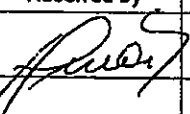
No: 1-080912-105002-0004

Date Shipped: 8/9/2012

Lab #	Sample #	Location	Sub Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	MS/MSD
	R01-120403CY-0107	SD-513	C200	PCBs	Sediment	8/7/2012	10:30	1	8 oz Amber	
	R01-120403CY-0110	SD-516	D200	PCBs	Sediment	8/7/2012	10:42	1	8 oz Amber	
	R01-120403CY-0113	SD-519	E200	PCBs	Sediment	8/7/2012	10:00	1	8 oz Amber	
	R01-120403CY-0117	SD-523	F200	PCBs	Sediment	8/7/2012	12:30	1	8 oz Amber	
	R01-120403CY-0136	SD-542	K400	PCBs	Sediment	8/7/2012	14:50	1	8 oz Amber	
	R01-120403CY-0139	SD-545	M300	PCBs	Sediment	8/8/2012	08:00	1	8 oz Amber	
	R01-120403CY-0144	SD-550	F250	PCBs	Sediment	8/8/2012	08:15	2	8 oz Amber	Y
	R01-120403CY-0147	P-410-SS-01	Near tank	PCBs	Soil	8/8/2012	10:21	1	4 oz Amber	
	R01-120403CY-0148	P-410-SS-02	Wall near tank	PCBs	Soil	8/8/2012	10:26	1	4 oz Amber	
	R01-120403CY-0149	P-410-SS-03	Wall near well	PCBs	Soil	8/8/2012	10:30	1	4 oz Amber	
	R01-120403CY-0151	P-414-SB-02		PCBs	Soil	8/8/2012	12:00	1	4 oz Amber	
	R01-120403CY-0156	P-414-SB-07		PCBs	Soil	8/8/2012	12:00	1	4 oz Amber	
	R01-120403CY-0158	P-414-SB-09		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0159	P-414-SB-10		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0162	P-538-SB-01	A100	PCBs	Soil	8/8/2012	14:40	1	4 oz Amber	
	R01-120403CY-0175	P-538-SB-14	D000	PCBs	Soil	8/8/2012	14:05	2	4 oz Amber	Y
	R01-120403CY-0185	SD-600	E200	PCBs	Sediment	8/7/2012	10:00	1	8 oz Amber	
	R01-120403CY-0186	P-414-SB-100		PCBs	Soil	8/8/2012	11:15	1	4 oz Amber	
	R01-120403CY-0190	P-594-SB-12	C150	PCBs	Soil	8/9/2012	09:10	1	4 oz Amber	

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/9/12		8-9-12	12:50 hrs			8/10/12		8/9/12 10	11:12

PN: 12080031

Project Code: Park Street
Contact Name: Cathy Young
Contact Phone: 617-918-1217

No: 1-080912-105002-0004

DateShipped: 8/9/2012

[illegible]

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

[illegible]

Appendix F

Boring Logs

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG				Page 1 of 2		
Project		Park Street Site		Boring ID		NA		Groundwater Levels*	
Location		Bennington, Vermont		Well ID		EPA-100		Date	Depth (ft)
Date Drilled		28-Aug-12		Drilling Method		ODEX and Drive and Wash		30-Aug-12	9.30
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon			
Drilling Foreman		Manlea W. Thompson		Completion Depth		32 feet bgs			
Drill Rig Type		CME-550X		Surface Elevation					
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)							
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description				Relative Density Descriptor
0					0 - 6" - Topsoil				
2					Boring advanced 33 feet through cobble/boulders using ODEX drilling method, and then drive and wash drilling method was used once below the cobbles/boulders.				
4					ODEX casing was removed and 4-inch regular casing was advanced while using drive and wash drilling method. Used 2-inch diameter split spoons and 140 lb. auto-hammer for soil sampling.				
6					Water table at 6.61 feet bgs.				
8									
10		NA	NA	NA	0 - 33 feet Gravel, cobbles, and boulders (white, pink, tan, buff, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt.				NA
12									
14									
16									
18									
20									
22									
24									
26									

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG				Page 2 of 2		
Project		Park Street Site		Boring ID		NA		Groundwater Levels*	
Location		Bennington, Vermont		Well ID		EPA-100		Date	Depth (ft)
Date Drilled		28-Aug-12		Drilling Method		ODEX and Drive and Wash		30-Aug-12	9.30
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon			
Drilling Foreman		Manlea W. Thompson		Completion Depth		32 feet bgs			
Drill Rig Type		CME-550X		Surface Elevation					
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)							

Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description	Relative Density Descriptor
28					Split spoon soil sampling began at the 33 - 35 foot interval.	
30						
32						
34		1	WOR (12 in)-3-8	11		
36	2	5-6-8-8	20	0 - 8" Gray, CLAY, little silt. Wet. 8 - 20" Gray, CLAY (with thin laminae of brown silt). Wet.	Stiff	
38					-End of boring at 37 feet-	

Well Construction Details:

	Screen	2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 27 - 32 ft bgs
	Riser	2-in diameter, Schedule 40 PVC riser, 2.7 ft ags - 27 ft bgs
	Filter sand	Filter sand (0) from 25 - 32.5 ft bgs
	Bentonite seal	Bentonite seal from 32.5 - 37 and 10 - 25 ft bgs (2 inches of sand on top of bentonite)
	Grout	Grout (Portland Cement, Type I/II) from 1 - 10 ft bgs
	Concrete	Concrete (Sakrete), 0 - 1 ft bgs

Metal protective casing extends 2.9 ft ags and 2.1 ft bgs

Notes:

Soil Classification System - Burmister

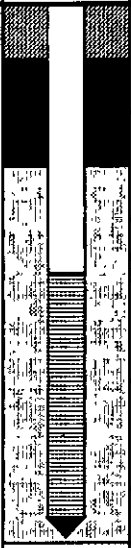
* Measurements from top of PVC riser

Top of water table







ags = above ground surface WOR = Weight of rods
bgs = below ground surface
NA = Not Applicable

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG				Page 1 of 2		
Project		Park Street Site		Boring ID		NA		Groundwater Levels*	
Location		Bennington, Vermont		Well ID		EPA-101		Date	Depth (ft)
Date Drilled		22-Aug-12		Drilling Method		ODEX and Drive and Wash		30-Aug-12	9.37
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon			
Drilling Foreman		Manlea W. Thompson		Completion Depth		34.9 feet bgs			
Drill Rig Type		CME-550X		Surface Elevation					
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)							
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description				Relative Density Descriptor
0					0 - 6" - Topsoil				NA
2					Boring advanced 20 feet using ODEX drilling method, and then first split spoon sample collected between 20 - 22 feet bgs. Continued drilling using ODEX drilling method to 25 feet through cobbles/boulders, and then drive and wash drilling method was used once below the cobbles/boulders.				
4					ODEX casing was removed and 4-Inch regular casing was advanced while using drive and wash drilling method. Used 2-inch diameter split spoons and 140 lb. auto-hammer for soil sampling.				
6					0 - 25 feet Gravel, cobbles, and boulders (white, pink, tan, buff, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt.				
8		NA	NA	NA					
10					Water table at 9.67 feet bgs.				
12									
14									
16									
18									
20					Split spoon soil sampling began at the 20 - 22 foot interval.				
22		1	17-34-24-15	4	0 - 4" Brown, coarse-to-fine SAND, little fine-to-coarse gravel, cobbles (angular), and silt. Wet. Still in coarse overburden materials.				Very Dense
24					Advanced borehole to 25 bgs through cobbles/boulders using ODEX drilling method.				

Weston Solutions, Inc.		SOIL BORING/WELL COMPLETION LOG				Page 2 of 2	
Project		Park Street Site		Boring ID		NA	
Location		Bennington, Vermont		Well ID		EPA-101	
Date Drilled		22-Aug-12		Drilling Method		ODEX and Drive and Wash	
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon	
Drilling Foreman		Manlea W. Thompson		Completion Depth		34.9 feet bgs	
Drill Rig Type		CME-550X		Surface Elevation			
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)					


Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description	Relative Density Descriptor
26		2	7-21-34-27	21	0 - 10" Light brown, SILT, little clay, trace coarse gravel (subrounded). Wet. 10 - 12" Light brown, CLAY, some silt. Wet. 12 - 21" Light brown, SILT, little clay. Wet.	Hard
28		3	16-23-23-21	16	0 - 16" Light brown, SILT, little very fine sand, trace clay and coarse gravel (subangular). Wet.	Hard
30					Pulled out ODEX casing and lost casing cutting bit. Unable to advance beyond 10 bgs. Co-located boring and advanced to 30 feet using drive and wash drilling method.	
32		4	7-8-7-8	17	0 - 17" Light brown, SILT, little very fine sand, trace clay. Wet.	Stiff
34		5	12-10-10-12	14	0 - 14" Light brown, SILT and very fine SAND, trace clay. Wet.	Very Stiff
36					-End of boring at 34.9 feet-	

Well Construction Details:

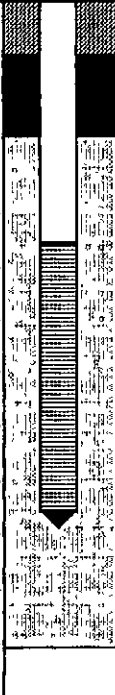
	Screen	2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 29.9 - 34.9 ft bgs
	Riser	2-in diameter, Schedule 40 PVC riser, 0.30 ft - 29.9 ft bgs
	Filter sand	Filter sand (0) from 28 - 34.9 ft bgs
	Bentonite seal	Bentonite seal from 26 - 28 ft bgs (2 inches of sand on top of bentonite)
	Grout	Grout (Portland Cement, Type I/II) from 1 - 26 ft bgs
	Concrete	Concrete (Sakrete), 0 - 1 ft bgs

Road box (flush-mount) casing extends to 1 ft bgs







Notes:

Soil Classification System - Burmister	ags = above ground surface
* Measurements from top of PVC riser	bgs = below ground surface
 Top of water table	NA = Not Applicable

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG				Page 1 of 2		
Project		Park Street Site		Boring ID		NA		Groundwater Levels*	
Location		Bennington, Vermont		Well ID		EPA-102		Date	Depth (ft)
Date Drilled		8/20/2012 thru 8/21/12		Drilling Method		ODEX and Drive and Wash		28-Aug-12	6.79
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon			
Drilling Foreman		Manlea W. Thompson		Completion Depth		34.6 feet bgs			
Drill Rig Type		CME-550X		Surface Elevation					
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)							
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description				Relative Density Descriptor
0					0 - 6" - Topsoil				
2					Boring advanced 21 feet through cobble/boulders using ODEX drilling method, and then drive and wash drilling method was used once below the cobbles/boulders.				
4					ODEX casing was removed and 4-inch regular casing was advanced while using drive and wash drilling method. Used 2-inch diameter split spoons and 140 lb. auto-hammer for soil sampling.				
					Water table at 4.35 feet bgs.				
6									
8									
10		NA	NA	NA	0 - 21 feet Gravel, cobbles, and boulders (white, pink, tan, buff, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt.				NA
12									
14									
16									
18									
20					Split spoon soil sampling began at the 21 - 23 foot interval.				
22		1	WOR (2 ft)	17	0 - 11" Slough (Light brown, SILT, some clay. Wet). 11 - 17" Light brown, SILT, some very fine sand, little clay. Wet.				Very Soft
24		2	4-9-9-11	19	0 - 5" Slough (Light brown, SILT, some very fine sand. Wet). 5 - 19" Light brown, SILT and CLAY. Wet.				Very Stiff
					Advanced borehole to 25 feet bgs using drive and wash drilling method.				

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG				Page 2 of 2		
Project		Park Street Site		Boring ID		NA		Groundwater Levels*	
Location		Bennington, Vermont		Well ID		EPA-102		Date	Depth (ft)
Date Drilled		8/20/2012 thru 8/21/12		Drilling Method		ODEX and Drive and Wash		28-Aug-12	6.79
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon			
Drilling Foreman		Manlea W. Thompson		Completion Depth		34.6 feet bgs			
Drill Rig Type		CME-550X		Surface Elevation					
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)							
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description			Relative Density Descriptor	
26		3	8-5-5-6	17	0 - 17 " Light brown, SILT, some clay. Wet.			Stiff	
28					Advanced borehole to 30 feet bgs using drive and wash drilling method.				
30									
32		4	8-4-6-7	16	0 - 16 " Light brown, SILT, little clay. Wet.			Stiff	
34					Advanced borehole to 35 feet bgs using drive and wash drilling method.				
36		5	5-7-9-10	18	0 - 18 " Light brown, very fine SAND and SILT, little clay. Wet.			Medium Dense	
38					-End of boring at 37 feet-				


Well Construction Details:

	Screen	2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 29.6 - 34.6 ft bgs
	Riser	2-in diameter, Schedule 40 PVC riser, 2.4 ft ags - 29.6 ft bgs
	Filter sand	Filter sand (0) from 27.5 - 37 ft bgs
	Bentonite seal	Bentonite seal from 26 - 27.5 ft bgs (2 inches of sand on top of bentonite)
	Grout	Grout (Portland Cement, Type I/II) from 1 - 26 ft bgs
	Concrete	Concrete (Sakrete), 0 - 1 ft bgs

Notes:

Soil Classification System - Burmister

* Measurements from top of PVC riser

 Top of water table

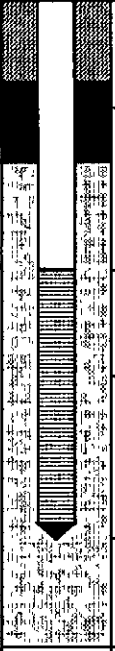
ags = above ground surface WOR = Weight of rods

bgs = below ground surface







NA = Not Applicable

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG				Page 1 of 2		
Project		Park Street Site		Boring ID		NA		Groundwater Levels*	
Location		Bennington, Vermont		Well ID		EPA-103		Date	Depth (ft)
Date Drilled		17-Aug-12		Drilling Method		ODEX and Drive and Wash		28-Aug-12	9.04
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon			
Drilling Foreman		Manlea W. Thompson		Completion Depth		35.2 feet bgs			
Drill Rig Type		CME-550X		Surface Elevation					
Logged by				George Mavris - Weston, Superfund Technical Assessment and Response Team (START)					
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description				Relative Density Descriptor
0					0 - 6" - Topsoil				NA
2					Boring advanced 14.5 feet through cobble/boulders using ODEX drilling method, and then drive and wash drilling method was used once below the cobbles/boulders.				
4					ODEX casing was removed and 4-inch regular casing was advanced while using drive and wash drilling method. Used 2-inch diameter split spoons and 140 lb. auto-hammer for soil sampling.				
6					Water table at 6.40 feet bgs.				
8		NA	NA	NA	0 - 14.5 feet Gravel, cobbles, and boulders (white, pink, tan, buff, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt.				
10					Split spoon soil sampling began at the 14.5 -16.5 foot interval.				
12									
14									
16		1	WOR-4-8-10	16	0 - 16" Brown, SILT, little very fine sand, trace clay. Wet.				Stiff
18		2	8-12-13-14	24	0 - 6" Light brown, SILT and CLAY. Wet. 6 - 12" Brown, SILT, some very fine sand, trace clay. Wet. 12 - 14" Gray and brown, SILT, some very fine sand, trace clay. Wet. 14 - 24" Brown, SILT, some very fine sand, trace clay, mottled (brown and gray). Wet.				Very Stiff
20					Advance borehole to 20 feet bgs using drive and wash drilling method.				
22		3	6-8-9-13	21	0 - 21" Brown, very fine SAND, some silt, trace clay. Wet.				Medium Dense
24					Advance borehole to 25 feet bgs using drive and wash drilling method.				

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG			Page 2 of 2	
Project		Park Street Site		Boring ID	NA		Groundwater Levels*
Location		Bennington, Vermont		Well ID	EPA-103		Date Depth (ft)
Date Drilled		17-Aug-12		Drilling Method	ODEX and Drive and Wash		28-Aug-12 9.04
Drilling Company		New Hampshire Boring		Sampling Method	2-in diam. Split Spoon		
Drilling Foreman		Manlea W. Thompson		Completion Depth	35.2 feet bgs		
Drill Rig Type		CME-550X		Surface Elevation			
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)					

Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description	Relative Density Descriptor
26		4	7-21-34-27	24	0 - 24" Grayish-brown, SILT, little clay. Wet.	Hard
28					Advanced borehole to 30 feet bgs using drive and wash drilling method.	
30						
32		5	27-30-31-23	24	0 - 12" Brown, very fine SAND, some silt, trace clay. Wet. 12 - 24" Light brown, very fine SAND, some silt, trace clay. Wet.	Very Dense
34						
36		6	7-10-11-15	18	0 - 18" Light brown, very fine SAND, some silt, trace clay. Wet. -End of boring at 37 feet-	Medium Dense
38						


Well Construction Details:

	Screen	2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 30.2 - 35.2 ft bgs
	Riser	2-in diameter, Schedule 40 PVC riser, 2.6 ft ags - 30.2 ft bgs
	Filter sand	Filter sand (0) from 28 - 37 ft bgs
	Bentonite seal	Bentonite seal from 26.5 - 28 ft bgs (2 inches of sand on top of bentonite)
	Grout	Grout (Portland Cement, Type I/II) from 1 - 26.5 ft bgs
	Concrete	Concrete (Sakrete), 0 - 1 ft bgs

Notes:

Soil Classification System - Burmister

* Measurements from top of PVC riser

 Top of water table

ags = above ground surface WOR = Weight of rods

bgs = below ground surface

NA = Not Applicable

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG			Page 1 of 1	
Project		Park Street Site		Boring ID	NA		Groundwater Levels*
Location		Bennington, Vermont		Well ID	EPA-104S		Date Depth (ft)
Date Drilled		22-Aug-12		Drilling Method	ODEX		28-Aug-12 4.62
Drilling Company		New Hampshire Boring		Sampling Method	NA		
Drilling Foreman		Manlea W. Thompson		Completion Depth	10.5 feet bgs		
Drill Rig Type		CME-550X		Surface Elevation			
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)					

Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description	Relative Density Descriptor			
2		NA	NA	NA	Water table at 1.80 feet bgs.	NA			
4					Boring advanced 11.5 feet into cobble/boulders using ODEX drilling method. No soil sampling conducted. See EPA-104D for soil descriptions.				
6									
8									
10									
12									
-End of boring at 11.5 feet-									

Well Construction Details:

	Screen	2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 0.5 - 10.5 ft bgs
	Riser	2-in diameter, Schedule 40 PVC riser, 2.8 ft ags - 0.5 ft bgs
	Filter sand	Filter sand (0) from 1 - 11.5 ft bgs
	Bentonite seal	Bentonite seal from 0.75 - 1 ft bgs (1 inch of sand on top of bentonite)
	Concrete	Concrete (Sakrete), 0 - 0.75 ft bgs

Metal protective casing extends 3.2 ft ags and 1.8 ft bgs

Notes:

* Measurements from top of PVC riser

Top of water table

ags = above ground surface

bgs = below ground surface

NA = Not Applicable







Project	Park Street Site	Boring ID	NA	Groundwater Levels*	
Location	Bennington, Vermont	Well ID	EPA-104D	Date	Depth (ft)
Date Drilled	21-Aug-12	Drilling Method	ODEX and Drive and Wash	28-Aug-12	4.49
Drilling Company	New Hampshire Boring	Sampling Method	2-in diam. Split Spoon		
Drilling Foreman	Manlea W. Thompson	Completion Depth	20 feet bgs		
Drill Rig Type	CME-550X	Surface Elevation			

Logged by George Mavris - Weston, Superfund Technical Assessment and Response Team (START)


Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description	Relative Density Descriptor
0					0 - 6" - Topsoil	
2					Water table at 1.89 feet bgs.	
4					Boring advanced 18 feet through cobble/boulders using ODEX drilling method, and then drive and wash drilling method was used once below the cobbles/boulders.	
6					ODEX casing was removed and 4-inch regular casing was advanced while using drive and wash drilling method. Used 2-inch diameter split spoons and 140 lb. auto-hammer for soil sampling.	
8						
10		NA	NA	NA	0 - 18 feet Gravel, cobbles, and boulders (white, pink, tan, buff, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt.	NA
12						
14						
16						
18					Split spoon soil sampling began at the 18 - 20 foot interval.	
20		1	14-16-20-20	9	0 - 4" Light brown and gray, very fine SAND and SILT. Wet. 4 - 9" Gray, CLAY, little coarse gravel. Wet.	Hard
22		2	18-21-22-27	20	0 - 17" Gray, CLAY. Wet. 17 - 20" Light brown, SILT and very fine SAND. Wet.	Hard
					-End of boring at 22 feet-	

Weston Solutions, Inc.		SOIL BORING/WELL COMPLETION LOG		Page 2 of 2	
Project	Park Street Site	Boring ID	NA	Groundwater Levels*	
Location	Bennington, Vermont	Well ID	EPA-104D	Date	Depth (ft)
Date Drilled	21-Aug-12	Drilling Method	ODEX and Drive and Wash	28-Aug-12	4.49
Drilling Company	New Hampshire Boring	Sampling Method	2-in diam. Split Spoon		
Drilling Foreman	Manlea W. Thompson	Completion Depth	20 feet bgs		
Drill Rig Type	CME-550X	Surface Elevation			
Logged by	George Mavris - Weston, Superfund Technical Assessment and Response Team (START)				

Well Construction Details:

	Screen	2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 15 - 20 ft bgs
	Riser	2-in diameter, Schedule 40 PVC riser, 2.6 ft ags - 15 ft bgs
	Filter sand	Filter sand (0) from 13 - 20.5 ft bgs
	Bentonite seal	Bentonite seal from 3 - 13 ft bgs (2 inches of sand on top of bentonite) and from 20.5 - 22 ft bgs
	Grout	Grout (Portland Cement, Type I/II) from 1 - 3 ft bgs
	Concrete	Concrete (Sakrete), 0 - 1 ft bgs
		Metal protective casing extends 2.7 ft ags and 2.3 ft bgs

Notes:

Soil Classification System - Burmister	ags = above ground surface
* Measurements from top of PVC riser	bgs = below ground surface
 Top of water table	NA = Not Applicable

Project	Park Street Site	Boring ID	NA	Groundwater Levels*	
Location	Bennington, Vermont	Well ID	EPA-105	Date	Depth (ft)
Date Drilled	8/14/2012 thru 8/17/12	Drilling Method	ODEX and Drive and Wash	28-Aug-12	8.30
Drilling Company	New Hampshire Boring	Sampling Method	2-in diam. Split Spoon		
Drilling Foreman	Manlea W. Thompson	Completion Depth	39.2 feet bgs		
Drill Rig Type	CME-550X	Surface Elevation			
Logged by	George Mavris - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description	Relative Density Descriptor
0					0 - 6" - Topsoil	
2					Boring advanced 19 feet through cobble/boulders using ODEX drilling method, and then drive and wash drilling method was used once below the cobbles/boulders.	
4					ODEX casing was removed and 4-inch regular casing was advanced while using drive and wash drilling method. Used 2-inch diameter split spoons and 140 lb. auto-hammer for soil sampling.	
6					Water table at 5.60 feet bgs.	
8						
10		NA	NA	NA	0 - 19 feet Gravel, cobbles, and boulders (white, pink, tan, buff, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt.	NA
12						
14						
16						
18						
20		1	WOR (1.5 ft)-3 (0.5 ft)	22	0 - 9" Brown, SILT and very fine SAND, little clay, wet. 9 - 22" Brown, fine SAND, trace silt and clay. Wet.	Very Loose
22		2	6-8-8-12	20	0 - 12" Brown and light gray, SILT and very fine SAND, trace clay, wet. 12 - 20" Brown, SILT, little clay. Wet.	Very Stiff
24		3	18-14-19-20	22	0 - 9" Slough (Brown, fine-to-very fine SAND. Wet). 9 - 16" Brown, fine SAND and SILT. Wet. 16 - 22" Light brown and gray, fine SAND. Wet.	Dense
26					Advanced borehole to 30 feet using drive and wash drilling method.	

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG					Page 2 of 2	
Project		Park Street Site		Boring ID		NA		Groundwater Levels*	
Location		Bennington, Vermont		Well ID		EPA-105		Date	Depth (ft)
Date Drilled		8/14/2012 thru 8/17/12		Drilling Method		ODEX and Drive and Wash		28-Aug-12	8.30
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon			
Drilling Foreman		Manlea W. Thompson		Completion Depth		39.2 feet bgs			
Drill Rig Type		CME-550X		Surface Elevation					
Logged by			George Mavris - Weston, Superfund Technical Assessment and Response Team (START)						
Depth (ft bgs)	Well Construct	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description				Relative Density Descriptor
28									
30									
32		4	7-8-11-14	12	0 - 12" Light brown SILT and very fine SAND. Wet.				Very Stiff
34					Advanced borehole to 35 feet using drive and wash drilling method.				
36		5	5-7-9-11	14	0 - 14" Brown, medium SAND, trace fine-to-coarse gravel (subrounded, dropstone?). Wet.				Medium Dense
38					Advanced borehole to 40 feet bgs using drive and wash drilling method.				
40									
42		6	9-13-16-21	16	0 - 16" Light brown, SILT, trace clay. Wet.				Very Stiff
-End of boring at 42 feet-									

Well Construction Details:



Screen

2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 34.2 - 39.2 ft bgs

Riser

2-in diameter, Schedule 40 PVC riser, 2.8 ft ags - 34.2 ft bgs

Filter sand

Filter sand (0) from 32 - 42 ft bgs

Bentonite seal

Bentonite seal from 30.5 - 32 ft bgs (2 inches of sand on top of bentonite)

Grout

Grout (Portland Cement, Type I/II) from 1 - 30.5 ft bgs

Concrete

Concrete (Sakrete), 0 - 1 ft bgs

Metal protective casing extends 2.8 ft ags and 2.2 ft bgs

Notes:

Soil Classification System - Burmister

ags = above ground surface

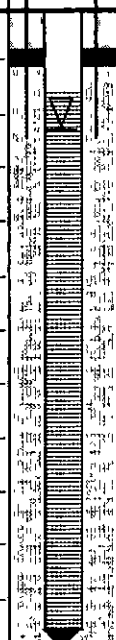
WOR = Weight of rods

* Measurements from top of PVC riser

bgs = below ground surface

▽ Top of water table

NA = Not Applicable

Project		Park Street Site		Boring ID		NA		Groundwater Levels*				
Location		Bennington, Vermont		Well ID		EPA-106S		Date	Depth (ft)			
Date Drilled		23-Aug-12		Drilling Method		ODEX		28-Aug-12	4.62			
Drilling Company		New Hampshire Boring		Sampling Method		NA						
Drilling Foreman		Manlea W. Thompson		Completion Depth		11.7 feet bgs						
Drill Rig Type		CME-550X		Surface Elevation								
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)										
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description				Relative Density Descriptor			
2		NA	NA	NA	Boring advanced 11.7 feet into cobble/boulders using ODEX drilling method. No soil sampling conducted. See EPA-106D for soil descriptions.				NA			
4					Water table at 2.17 feet bgs.							
6												
8												
10												
12												
					-End of boring at 11.7 feet-							

Well Construction Details:



Screen

Riser

Filter sand

Bentonite seal

Concrete

2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 1.7 - 11.7 ft bgs

2-in diameter, Schedule 40 PVC riser, 2.6 ft ags - 1.7 ft bgs

Filter sand (0) from 1 - 11.7 ft bgs

Bentonite seal from 0.75 - 1 ft bgs (1 inch of sand on top of bentonite)

Concrete (Sakrete), 0 - 0.75 ft bgs

Metal protective casing extends 2.6 ft ags to 2.4 ft bgs

Notes:

* Measurements from top of PVC riser

▽ Top of water table


NA = Not Applicable

ags = above ground surface

bgs = below ground surface

Project		Park Street Site		Boring ID	NA	Groundwater Levels*	
Location		Bennington, Vermont		Well ID	EPA-106D	Date	Depth (ft)
Date Drilled		23-Aug-12		Drilling Method	ODEX and Drive and Wash	30-Aug-12	2.21
Drilling Company		New Hampshire Boring		Sampling Method	2-in diam. Split Spoon		
Drilling Foreman		Manlea W. Thompson		Completion Depth	28.3 feet bgs		
Drill Rig Type		CME-550X		Surface Elevation			
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)					
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description		Relative Density Descriptor
0					0 - 6" - Topsoil		
2					Boring advanced 23 feet through cobble/boulders using ODEX drilling method, and then drive and wash drilling method was used once below the cobbles/boulders.		
4					ODEX casing was removed and 4-inch regular casing was advanced while using drive and wash drilling method. Used 2-inch diameter split spoons and 140 lb. auto-hammer for soil sampling.		
6					Water table at 2.21 feet bgs.		
8							
10					0 - 23 feet Gravel, cobbles, and boulders (white, pink, tan, buff, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt.		
12		NA	NA	NA			NA
14							
16							
18							
20							
22					Split spoon soil sampling began at the 23 - 25 foot interval.		
24		1	WOR-WOH-1-1	10	0 - 10" Light brown, very fine SAND and SILT, trace clay. Wet.		Very Loose

Project	Park Street Site	Boring ID	NA	Groundwater Levels*	
Location	Bennington, Vermont	Well ID	EPA-106D	Date	Depth (ft)
Date Drilled	23-Aug-12	Drilling Method	ODEX and Drive and Wash	30-Aug-12	2.21
Drilling Company	New Hampshire Boring	Sampling Method	2-in diam. Split Spoon		
Drilling Foreman	Manlea W. Thompson	Completion Depth	28.3 feet bgs		
Drill Rig Type	CME-550X	Surface Elevation			
Logged by	George Mavis - Weston, Superfund Technical Assessment and Response Team (START)				

Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description	Relative Density Descriptor
26		2	7-17-16-20	20	0 - 16" Brown, very fine SAND and SILT, trace clay. Wet. 16 - 20" Brown, very fine SAND, little clay. Wet.	Dense
28					Advanced borehole to 30 feet bgs using drive and wash drilling method.	
30					-End of boring at 28.3 feet-	
32		3	3-8-10-9	16	0 - 16" Light brown, CLAY, little silt, trace coarse gravel (in clay, angular). Wet.	Very Stiff
34		4	4-7-6-7	17	0 - 3" Light brown, CLAY, little silt, trace coarse gravel (in clay, angular). Wet. 3 - 17" Light brown, SILT and very fine SAND, trace clay. Wet.	Stiff

Well Construction Details:



Screen

Riser

Filter sand

Bentonite seal

Grout

Concrete

2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 23.3 - 28.3 ft bgs

2-in diameter, Schedule 40 PVC riser, 2.3 ft ags - 23.3 ft bgs

Filter sand (0) from 21 - 28.3 ft bgs

Bentonite seal from 18 - 21 ft bgs (2 inches of sand on top of bentonite) and from 28.3 - 34 ft bgs.

Grout (Portland Cement, Type I/II) from 1 - 18 ft bgs


Concrete (Sakrete), 0 - 1 ft bgs

Metal protective casing extends 2.3 ft ags and 2.7 ft bgs

Notes:

Soil Classification System - Burmister

* Measurements from top of PVC riser

 Top of water table









ags = above ground surface

bgs = below ground surface

NA = Not Applicable

WOR = Weight of rods

WOH = Weight of hammer

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG			Page 2 of 2	
Project		Park Street Site		Boring ID		NA	
Location		Bennington, Vermont		Well ID		EPA-107	
Date Drilled		29-Aug-12		Drilling Method		ODEX and Drive and Wash	
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon	
Drilling Foreman		Manlea W. Thompson		Completion Depth		22.2 feet bgs	
Drill Rig Type		CME-550X		Surface Elevation			
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)					
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description		Relative Density Descriptor
26		3	17-24-35-44	20	0 - 20" Light brown and gray, SILT, some coarse-to-fine gravel (subangular), little clay (very hard, appears dry when broken). Fines plastered on gravel fragments. Wet.		Hard
28		4	41-52-100R (4 inch advance)	21	0 - 21" Light brown and gray, SILT, some coarse-to-fine gravel (subangular), little clay (very hard, appears dry when broken). Fines plastered on gravel fragments. Rock stuck in cutting shoe. Wet. Bedrock (?) encountered at 28.5 ft bgs.		Hard
30					-End of boring at 28.5 feet-		
Well Construction Details: <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;">  Screen  Riser  Filter sand  Bentonite seal  Grout  Concrete </div> <div style="width: 65%;"> <p>2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 12.2 - 22.2 ft bgs</p> <p>2-in diameter, Schedule 40 PVC riser, 0.30 ft - 12.2 ft bgs</p> <p>Filter sand (0) from 10 - 22.5 ft bgs and 25 - 29 ft bgs</p> <p>Bentonite seal from 3 - 10 ft bgs (2 inches of sand on top of bentonite) and from 22.5 - 25 ft bgs</p> <p>Grout (Portland Cement, Type I/II) from 1 - 3 ft bgs</p> <p>Concrete (Sakrete), 0 - 1 ft bgs</p> <p>Road box (flush-mount) casing extends to 1 ft bgs</p> </div> </div>							
Notes: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="width: 45%;"> <p>Soil Classification System - Burmister</p> <p>* Measurements from top of PVC riser</p> <p> Top of water table</p> </div> <div style="width: 50%;"> <p>ags = above ground surface R = refusal</p> <p>bgs = below ground surface</p> <p>NA = Not Applicable</p> </div> </div>							

Weston Solutions, Inc.		SOIL BORING/WELL COMPLETION LOG				Page 1 of 1	
Project		Park Street Site		Boring ID	NA		Groundwater Levels*
Location		Bennington, Vermont		Well ID	EPA-108S		Date Depth (ft)
Date Drilled		27-Aug-12		Drilling Method	ODEX		30-Aug-12 6.29
Drilling Company		New Hampshire Boring		Sampling Method	NA		
Drilling Foreman		Manlea W. Thompson		Completion Depth	12.5 feet bgs		
Drill Rig Type		CME-550X		Surface Elevation			
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)					

Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description	Relative Density Descriptor
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">2</div> <div style="margin-bottom: 10px;">4</div> <div style="margin-bottom: 10px;">6</div> <div style="margin-bottom: 10px;">8</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">12</div> </div>		NA	NA	NA	<p>Boring advanced 13 feet into cobble/boulders using ODEX drilling method. No soil sampling conducted. See EPA-108D for soil descriptions.</p> <p>Water table at 3.41 feet bgs.</p> <p style="text-align: center;">-End of boring at 13 feet-</p>	NA

Well Construction Details:

	Screen	2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 2.5 - 12.5 ft bgs
	Riser	2-in diameter, Schedule 40 PVC riser, 2.9 ft ags - 2.5 ft bgs
	Filter sand	Filter sand (0) from 1.5 - 13 ft bgs
	Bentonite seal	Bentonite seal from 1.0 - 1.5 ft bgs (1 inch of sand on top of bentonite)
	Concrete	Concrete (Sakrete), 0 - 1.0 ft bgs

Metal protective casing extends 3.2 ft ags to 1.8 ft bgs

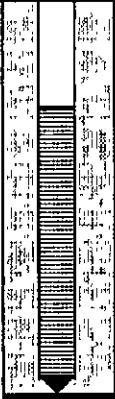
Notes:

* Measurements from top of PVC riser ags = above ground surface






Top of water table bgs = below ground surface

NA = Not Applicable

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG				Page 1 of 2		
Project		Park Street Site		Boring ID		NA		Groundwater Levels*	
Location		Bennington, Vermont		Well ID		EPA-108D		Date	Depth (ft)
Date Drilled		8/24/2012 thru 8/27/12		Drilling Method		ODEX and Drive and Wash		30-Aug-12	6.39
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon			
Drilling Foreman		Manlea W. Thompson		Completion Depth		32.2 feet bgs			
Drill Rig Type		CME-550X		Surface Elevation					
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)							
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (Inches)	Soil Description				Relative Density Descriptor
0					0 - 6" - Topsoil				
2					Boring advanced 30 feet through cobble/boulders using ODEX drilling method, and then drive and wash drilling method was used once below the cobbles/boulders.				
4					ODEX casing was removed and 4-inch regular casing was advanced while using drive and wash drilling method. Used 2-inch diameter split spoons and 140 lb. auto-hammer for soil sampling.				
6					Water table at 3.39 feet bgs.				
8									
10					0 - 30 feet Gravel, cobbles, and boulders (white, pink, tan, buff, and black quartzite and metamorphic rock fragments), and fine-to-coarse sand, and silt.				
12		NA	NA	NA					NA
14									
16									
18									
20									
22									
24									

Weston Solutions, Inc.			SOIL BORING/WELL COMPLETION LOG				Page 2 of 2			
Project		Park Street Site		Boring ID		NA		Groundwater Levels*		
Location		Bennington, Vermont		Well ID		EPA-108D		Date	Depth (ft)	
Date Drilled		8/24/2012 thru 8/27/12		Drilling Method		ODEX and Drive and Wash		30-Aug-12	6.39	
Drilling Company		New Hampshire Boring		Sampling Method		2-in diam. Split Spoon				
Drilling Foreman		Manlea W. Thompson		Completion Depth		32.2 feet bgs				
Drill Rig Type		CME-550X		Surface Elevation						
Logged by		George Mavris - Weston, Superfund Technical Assessment and Response Team (START)								
Depth (ft bgs)	Well Construct.	Split Spoon No.	Blow Counts (N)	Recovery (inches)	Soil Description			Relative Density Descriptor		
26					Split spoon soil sampling began at the 30 - 32 foot interval.					
28										
30										
32		1	WOR (12 IN)-59	14	0 - 3" Slough. Wet. 3 - 14" Brown, SILT, trace clay. Wet.			Medium Stiff		
34	2	9-13-14-13	20	0 - 4" Slough. Wet. 4 - 20" Brown, CLAY, little silt. Wet. -End of boring at 34 feet-			Very Stiff			
36										

Well Construction Details:


	Screen	2-in diameter, No. 10 slot (0.010 in) Schedule 40 PVC screen, 27.2 - 32.2 ft bgs
	Riser	2-in diameter, Schedule 40 PVC riser, 3.0 ft ags - 27.2 ft bgs
	Filter sand	Filter sand (0) from 25 - 32.2 ft bgs and from 1 - 5 ft bgs
	Bentonite seal	Bentonite seal from 5 - 25 ft bgs and 32.2 - 34 ft bgs.
	Concrete	Concrete (Sakrete), 0 - 1 ft bgs

Metal protective casing extends 3.2 ft ags and 1.8 ft bgs

Notes:

Soil Classification System - Burmister ags = above ground surface WOR = Weight of rods

* Measurements from top of PVC riser bgs = below ground surface

 Top of water table NA = Not Applicable